on Geometry



هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصواق

المنف الأول الأعدادي ص

Model Examinations of the School Book

on Geometry

Model -

Answer the following questions:

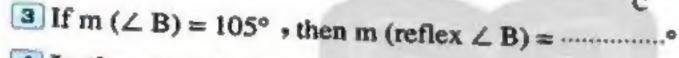
Complete each of the following:

1 The perpendicular bisector of a line segment is called

2 In the opposite figure :

If
$$\triangle$$
 ABC \equiv \triangle XYZ, m (\angle A) + m (\angle B) = 140°

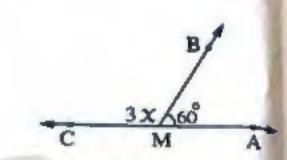
, then m $(\angle Z) = \cdots$



4 In the opposite figure:

If
$$\overline{MB} \cap \overline{AC} = \{M\}$$
, $m (\angle AMB) = 60^{\circ}$

, then the value of X equals



5 Two right-angled triangles are congruent if

Choose the correct answer from those given:

(a) 45°

(b) 90°

(c) 135°

(d) 180°

2 In the opposite figure:

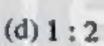
If AF // DE // BC , AE = EC

, then AD : AB =

(a) 2:1

(b) 3:2

(c) 1:3



3 The two straight lines that are perpendicular to a third one are

(a) perpendicular.

(b) intersecting.

(c) coincident.

(d) parallel.

4 The measure of each of the two equal complementary angles equals

(a) 180°

(b) 45°

(c) 360°

(d) 90°

5 If two straight lines intersect, then each two angles have the same measure.

(a) vertically opposite

(b) adjacent

(c) alternate

(d) corresponding

If \triangle ABC \equiv \triangle LMN, then m (\angle ACB) = m (\angle )

(a) LMN

(b) MLN

(c) LNM

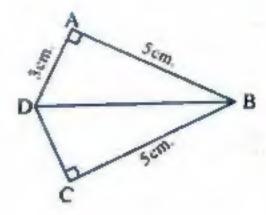
(d) NLM

[3] [a] In the opposite figure :

$$m (\angle BAD) = m (\angle BCD) = 90^{\circ}$$

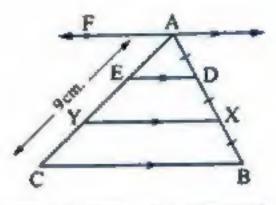
$$AB = CB = 5 \text{ cm. } AD = 3 \text{ cm.}$$

Mention the conditions for \triangle ABD , \triangle CBD to be congruent



[b] In the opposite figure:

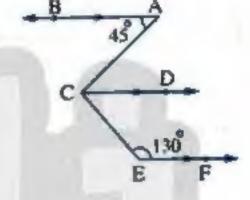
$$AD = DX = XB$$
 $AC = 9$ cm.



[a] In the opposite figure :

, m (
$$\angle A$$
) = 45°

$$m (\angle E) = 130^{\circ}$$

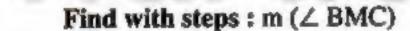


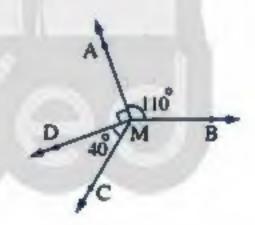
[b] In the opposite figure:

$$m (\angle AMB) = 110^{\circ}$$

$$m (\angle AMD) = 90^{\circ}$$

, m (
$$\angle$$
 DMC) = 40°



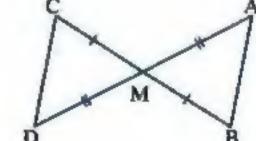


[a] In the opposite figure:

$$\overline{AD} \cap \overline{BC} = \{M\}$$

$$,BM=MC$$

$$, AM = MD$$



Write the conditions for \triangle AMB \rightarrow DMC to be congruent.

[b] Using your geometric instruments → draw ∠ ABC of measure 110° → then draw BF to bisect the angle.

Model

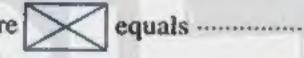
Answer the following questions:

Complete each of the following:

- The sum of the measures of the accumulative angles at a point equals
- 2 If a straight line intersects two parallel straight lines, then each two corresponding angles are -----
- 3 If m ($\angle A$) = 110°, then m (reflex $\angle A$) =°
- Two right-angled triangles are congruent if
- 5 The two adjacent angles formed by the intersection of a straight line and a ray with a starting point on this straight line are

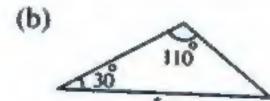
Choose the correct answer from those given :

- If $\angle X$ complements $\angle Y$ and $\angle X = \angle Y$, then $m(\angle X) = \cdots$
 - (a) 45°
- (b) 90°
- (c) 180°
- (d) 360°
- The number of triangles in the figure

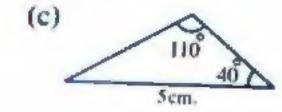


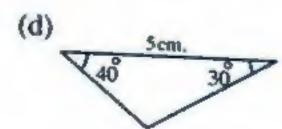
- (a) 4
- (b) 6
- (c) 7
- (d) 8
- 3 If the ratio between the measures of two supplementary angles is 5:13, then the measure of the smaller angle is
 - (a) 50°
- (b) 130°
- (c) 150°
- (d) 180°
- 4 If $\triangle ABC \equiv \triangle XYZ$, m ($\angle A$) + m ($\angle B$) = 100°, then m ($\angle Z$) =
 - (a) 50°
- (p) 80°
- (c) 90°
- 5 The two straight lines that are perpendicular to a third one are
 - (a) perpendicular. (b) parallel.
 - (c) coincident.
- (d) intersecting.
- B The figure is not congruent to the opposite figure.

(a)









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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى المست الاول الاعدادي مصطح المست الاول الاعدادي المست الاول الاعدادي المستح الاعدادي المستح المس



[a] Mention two cases of congruency of two triangles.

[b] In the opposite figure :

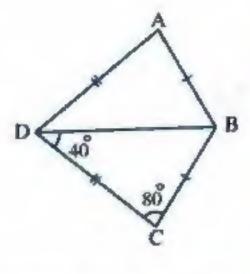
$$AB = BC \cdot AD = DC$$

$$m (\angle C) = 80^{\circ}$$

$$m (\angle BDC) = 40^{\circ}$$

Prove that : $\triangle CBD \equiv \triangle ABD$

, then find : m (∠ ABD)



4 [a] In the opposite figure :

$$\overrightarrow{DE} // \overrightarrow{AC} \cdot m (\angle A) = 110^{\circ}$$

$$m (\angle D) = 70^{\circ}$$

Is AB // CD? (Give the reason)



[b] Using the geometric instruments, draw \angle ABC where m (\angle B) = 80°, then draw BD (Don't remove the arcs). to bisect it.



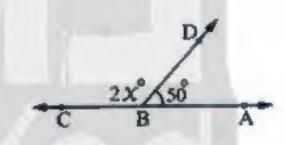
[a] In the opposite figure:

$$\overrightarrow{AC} \cap \overrightarrow{BD} = \{B\}$$

$$m (\angle ABD) = 50^{\circ}$$

, m (
$$\angle$$
 DBC) = 2 X°

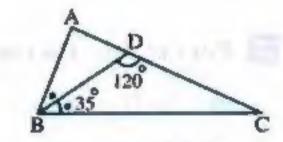
Find in degrees the value of X



[b] In the opposite figure:

$$m (\angle DBC) = 35^{\circ}$$

Find: $m (\angle A)$ in degrees.



Geometry -

Model examination for the merge students

Answer the following questions:

Complete each of the following:

- 1) If $m (\angle A) = 100^{\circ}$, then $m (reflex \angle A) = \dots^{\circ}$
- 3 The two straight lines parallel to a third are
- 4 Two triangles are congruent if two sides and
- 5 If \triangle ABC \equiv \triangle XYZ, then m (\triangle Z) = m (\triangle )

Choose the correct answer from those given :

- 1 The sum of the measures of the accumulative angles at a point equals
 - (a) 630°
- (b) 180°
- (c) 90°
- (d) 360°
- 2 The axis of symmetry of a line segment is
 - (a) perpendicular to it from its midpoint.

(b) parallel to it.

(c) equal to it in length.

- (d) congruent to it.
- 3 The supplement of the angle whose measure is 30° is an angle of measure
 - (a) 60°
- (b) 180°
- (c) 150°
- (d) 90°
- The angle whose measure is more than 90° and less than 180° is angle.
 - (a) an obtuse
- (b) an acute
- (c) a right
- (d) a straight

- 5 If \triangle ABC \equiv \triangle XYZ, then AB \equiv

- (d) BC

Put (/) for the correct statement and (X) for the incorrect statement :

- The right-angled triangle is congruent to the equilateral triangle.

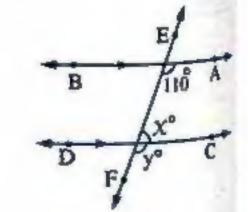
- 2 The two angles whose measures are 100° and 80° are supplementary.

3 From the opposite figure:

(a) AB // EF

(b) $x = 70^{\circ}$

(c) $y = 180^{\circ}$



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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

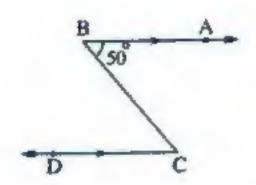
[a] In the opposite figure :

$$m(\angle ABC) = 50^{\circ}, \overrightarrow{BA} // \overrightarrow{CD}$$

Complete to find: m (∠ BCD)

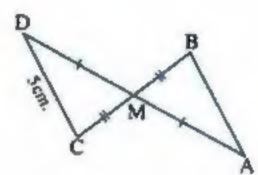
BA //

- then m (\angle ABC) = m (\angle ------ angles)
- , m (∠ BCD) =°

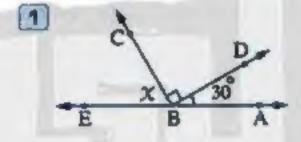


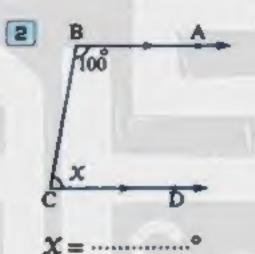
[b] From the opposite figure, complete:

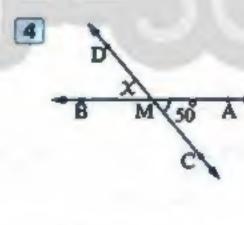
- $\triangle ABM \equiv \triangle \cdots$
- 2 AB = cm.
- $\boxed{\mathbf{3}}$ m $(\angle B)$ = m $(\angle \cdots)$

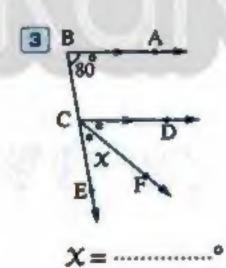


[a] In each of the following figures, find the value of x:





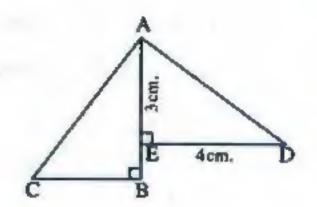




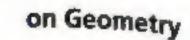
[b] In the opposite figure:

If
$$\triangle ABC \equiv \triangle DEA$$
,

$$AE = 3$$
 cm. and $DE = 4$ cm.



Some Schools Examinations





Cairo Governorate

Heliopolis Educational Directorate St Fatima Language School-Abbaseia



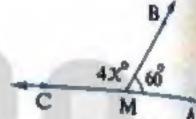
Answer the following questions:

Complete:

- 1 The measure of each of two equal complementary angles equals
- 2 If m ($\angle A$) = 180°, then m (reflex $\angle A$) =
- The straight line that is perpendicular to one of two parallel lines is also to the other.
- 4 In the opposite figure:

If m (\angle AMB) = 60°

• then $x = \dots$



5 If a straight line intersects two parallel straight lines, then each two corresponding angles are

Choose the correct answer:

If m $(\angle X) = 3$ m $(\angle Y)$ and $\angle X \cdot \angle Y$ are supplementary angles , then m $(\angle X) = \dots$

(a) 90°

(b) 180°

(c) 45°

(d) 135°

2 If \triangle ABC \equiv \triangle XYZ and m (\angle X) + m (\angle Y) = 100°, then m (\angle C) =

(a) 50°

(b) 100°

3 The supplement of the angle whose measure is 30° is an angle of measure

(a) 60°

(b) 180°

(c) 150°

(d) 20°

The ratio between the measures of two complementary angles is 2:7, then the measure of the smaller angle is

(a) 40°

(b) 140°

(c) 60°

(d) 20°

5 If two straight lines intersect, then each two angles have the same measure.

(a) vertically opposite

(b) adjacent

(c) alternate

(d) corresponding

B If \triangle ABC \cong \triangle XYZ, then BC \cong

(a) XY

(b) YZ

(c) XZ

(d) AB

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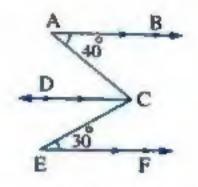
هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

الصف الأول الأعدادي (موكواكوري القايدي) كتاب الم

In the opposite figure :

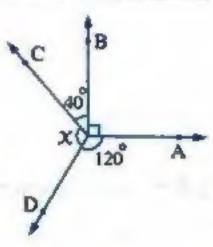
, m (
$$\angle$$
 A) = 40° , m (\angle E) = 30°

Find: m (∠ ACE)



[a] In the opposite figure :

Find the value of X



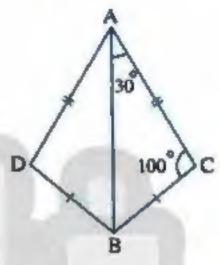
[b] In the opposite figure:

$$AC = AD , BC = BD$$

$$m (\angle CAB) = 30^{\circ}$$

1 Prove that : $\triangle ABC \equiv \triangle ABD$

2 Find: m (∠ ABD)



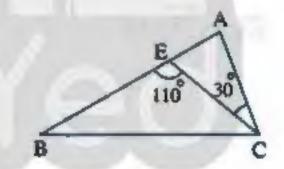
[a] Mention two cases of congruency of two triangles.

[b] In the opposite figure:

$$m (\angle ACE) = 30^{\circ}$$

$$m (\angle CEB) = 110^{\circ}$$

Find: m(∠A)



2 Cairo Governorate

Zietoun Educational Administration
Gombouria Language School



Answer the following questions:

1 Choose the correct answer:

1 If two straight lines intersect, then each two vertically opposite angles are

(a) equal in measure. (b) adjacent.

(c) supplementary. (d) complementary.

(a) 45°

(b) 90°

(c) 135°

(d) 180°

كراسة العجامع رياضيات (لغات) / ١ إعدادي / تهرم ١ (٢ : ٩)

الصف الأول الأعدادي

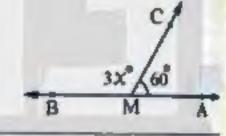
- 3 The best unit to measure the area of a room is
 - (a) mm²
- (b) cm²
- (c) m.²
- (d) km²
- - (a) 60°
- (b) 65°
- (c) 55°
- (d) 100°
- \blacksquare If L_1 , L_2 and L_3 are straight lines, $L_1 \perp L_3$, $L_2 \perp L_3$, then L_1 L_2
 - (a) //
- (b) 1
- (c) coincides
- (d) intersects
- B The number of rectangles of the opposite figure is
 - (a)3
- (b) 4
- (c) 6
- (d)5

Complete each of the following:

- If m ($\angle A$) = 100°, then m (reflex $\angle A$) =°
- 2 Two triangles are congruent if each of one triangle is equal to the corresponding part of the other triangle.
- 3 The perpendicular to a line segment from its midpoint is called
- [4] If the area of a rectangle is 20 cm.², its width is 4 cm., then the perimeter of the rectangle is cm.
- 5 In the opposite figure :

If
$$\overrightarrow{AB} \cap \overrightarrow{MC} = \{M\}$$

, then
$$X = \cdots$$

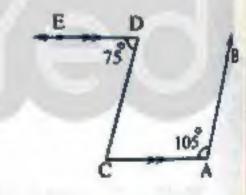


[a] In the opposite figure :

$$\overline{DE} // \overline{AC} \rightarrow m (\angle A) = 105^{\circ}$$

Find: $m(\angle C)$

Is AB // CD ? Giving the reason.



- [b] By using your geometric instruments, draw AB of length 6 cm., then draw the straight line L that is the axis of symmetry of \overline{AB} where $\overline{AB} \cap L = \{C\}$
- [a] In the opposite figure :

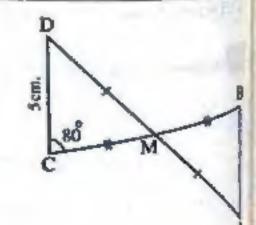
$$m (\angle C) = 80^{\circ} \rightarrow \overline{CB} \cap \overline{AD} = \{M\}$$

$$, MB = MC, MD = MA, CD = 5 cm.$$

Mention the conditions for

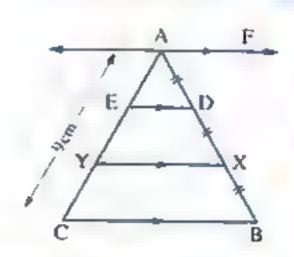
Δ ABM + Δ DCM to be congruent

and find: m (AB)



[b] In the opposite figure:

$$AD = DX = XB AC = 9 cm.$$



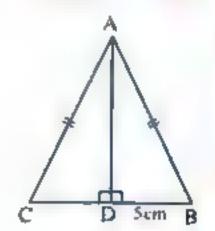
[a] In the opposite figure:

$$AB = AC$$
, $m(\angle ADB) = m(\angle ADC) = 90^{\circ}$, $BD = 5$ cm.

Mention the conditions for

 \triangle ABD , \triangle ACD to be congruent

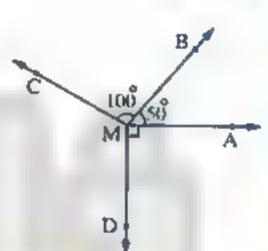
, and find: The length of BC



[b] In the opposite figure:

$$m (\angle AMB) = 50^{\circ} \cdot m (\angle CMB) = 100^{\circ}$$

Find: m (\(CMD \)



Cairo Governorate

El-Becatuen Education Zone



Answer the following questions:

1 Complete:

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- 1 The two adjacent angles formed by the intersection of a straight line and a ray with a starting point on this straight line are
- [2] The sum of measures of the accumulative angles at a point equals
- 4 If two straight lines are perpendicular to a third , then the two straight lines are
- [5] If $\triangle ABC \equiv \triangle XYZ$, $m(\angle A) + m(\angle B) = 100^{\circ}$, then $m(\angle Z) = \dots \dots \circ$

Choose the correct answer :

(a)45

(b) 90

(c) 180

(d)30

- 2 If the ratio between the measures of two supplementary angles is 5:13 then the measure of the smaller angle is o
 - (a) 130
- (b) 50
- (c) 180
- (d) 150
- - (a) equal in measure.

(b) complementary.

(c) supplementary.

- (d) right.
- 4 If $\triangle XYZ \equiv \triangle ABC$, then
 - (a) BC = XZ
- (b) YX = CA
- (c) ZY = CB
- (d) AB = YZ

- 5 In the opposite figure: $x = \cdots$
 - (a) 50
- (b) 30
- (c) 90
- (d) 15
- if XY = AB + XY = 5 cm. then $XY + 3 AB = \cdots \cdots \cdots \text{ cm.}$
 - (a) 5

2+2

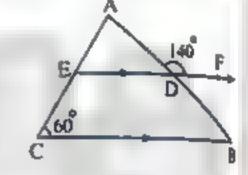
- (b) 20
- (c) 15
- (d) 30

[a] In the opposite figure:

BC // EF, $m(\angle C) = 60^{\circ}$

• m (\angle ADF) = 140°

Find each of the following: $m (\angle B)$ and $m (\angle A)$



[b] Draw \(\times XYZ\) of measure 120°, then bisect it. (Don't remove the arcs)

[a] In the opposite figure:

If m (\angle AMB) = 50° \cdot m (\angle BMC) = 60°

 $_{9}$ m (\angle DME) = 40°

and MA L ME

find: m (\(CMD \)

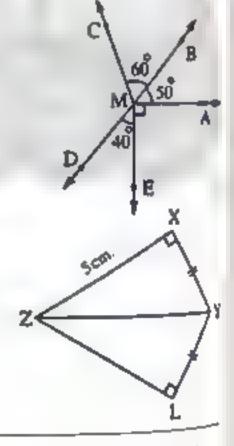


 $m (\angle X) = m (\angle L) = 90^{\circ} \cdot YX = YL$

and ZX = 5 cm.

Prove that : △ XYZ = △ LYZ , then find : the length of ZL

[c] Mention two cases of congruency of two triangles.



[a] In the opposite figure :

 $\overrightarrow{AD} \cap \overrightarrow{BC} = \{M\}$

,BM = MC ,AM = MD

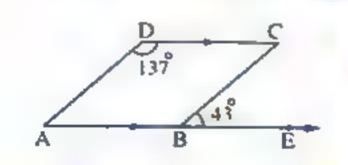
Prove that : \triangle AMB $\equiv \triangle$ DMC



[b] In the opposite figure :

$$\overline{AB} // \overline{DC}$$
, m ($\angle EBC$) = 43°

• m (
$$\angle$$
 D) = 137°



Giza Governorate

El-Dokki Diraetorate Math Inspection



Answer the following questions:

1 Choose the correct answer:

- 1 The angle whose measure is more than 180° and less than 360° is called (b) straight.
 - (a) obtuse.
- (c) reflex.
- (d) acute.
- - (a) 53°
- (b) 37°
- (c) 127°
- (d) 180°
- - (a) M
- (b) X
- (c) Z
- (d) Y
- 4 The sum of measures of the accumulative angles at a point equals ·
 - (a) 180°
- (b) 360°
- (c) 90°
- (d) 270°
- The two angles of measures: 40°, 50° are
 - (a) complementary. (b) supplementary. (c) reflex.
- (d) obtuse. B In $\triangle XYZ$, if m ($\angle X$) + m ($\angle Z$) = 95°, then m ($\angle Y$) =
 - (a) 180°
- (b) 95°
- (c) 90°
- (d) 85°

Complete the following:

In the opposite figure :

$$\overrightarrow{AC} \cap \overrightarrow{MD} = \{M\}$$
, $m (\angle AMD) = 30^{\circ}$

- 2 Two triangles are congruent if two sides and of one triangle are congruent to the corresponding parts of the other triangle.
- 3 If a straight line intersects two parallel straight lines, then each two corresponding angles are
- 5 If $m (\angle B) = 80^{\circ}$, then $m (reflex \angle B) = \dots$

[3] [a] In the opposite figure :

$$\overrightarrow{AD \cap BH} = \{M\}, m (\angle HMD) = 50^{\circ}$$

, MC bisects ∠ BMD

Find: m (∠ AMC)

[b] In the opposite figure:

$$\overline{MA} \perp \overline{MB}$$
, m ($\angle AMD$) = 65°

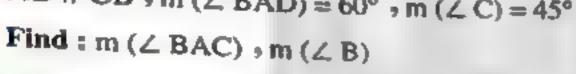
 $m (\angle DMC) = 150^{\circ}$

Find: m (∠ BMC)



[a] In the opposite figure:

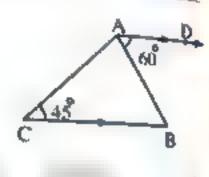
$$\overline{AD}$$
 // \overline{CB} , m ($\angle BAD$) = 60°, m ($\angle C$) = 45°

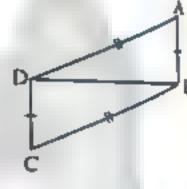


[b] In the opposite figure:

Is
$$\triangle ABD = \triangle CDB$$
? Why?

2 Complete: $m(\angle A) = m(\angle \cdots)$

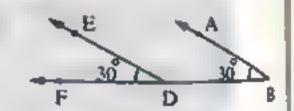




[a] In the opposite figure :

$$m (\angle B) = 30^{\circ}$$
, $m (\angle EDF) = 30^{\circ}$

Is DE // BA? Why?



[b] Using the geometric instruments, draw ∠ ABC of measure 115°, then draw BD to bisect it. (Don't remove the arcs)

Giza Governorate

of 6 October



Answer the following questions:

Choose the correct answer:

When a transversal cuts two parallel lines, then every two angles are equal in measure.

(a) alternate

(b) supplementary (c) complementary (d) adjacent

- 2 The perpendicular bisector of a line segment is called
 - (a) symmetry axis. (b) parallel line. (c) intersecting line. (d) median.
- [3] If m ($\angle A$) = 90°, then m (reflex $\angle A$) =
 - (a) 90°
- (b) 270°
- (c) 180°
- (d) 0°
- The measure of the straight angle equals
 - (a) 0°
- (b) 90°
- (c) 180°
- (d) 270°
- The angle whose measure is 179°, is angle.
 - (a) an acute
- (b) a right
- (c) an obtuse
- (d) a straight
- - (a) 45°
- (b) 90°
- (c) 135°
- (d) 180°

Complete :

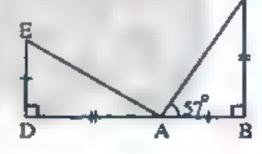
- and supplements an angle of measure
- 2 The two right-angled triangles are congruent if
- If $\triangle ABC \equiv \triangle XYZ$, then m ($\triangle A$) = m ($\triangle \cdots \cdots$), and XY = $\cdots \cdots$
- The angle whose measure is greater than 180° and less than 360° is called

[a] In the opposite figure:

$$AB = DE$$

$$,BC = AD ,m (\angle CAB) = 57^{\circ}$$

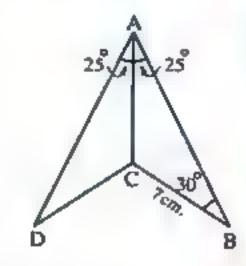
Find the measures of the unknown angles in the triangle ADE



[b] In the opposite figure:

If $\triangle ACB = \triangle ACD$, complete:

- 1 m (∠ D) = ·········°
- 2 CD = cm.
- 3 m (∠ ACD) =°



[4] Draw the angle ABC where m (\angle ABC) = 70°, then using the ruler and the compasses draw BD to bisect the angle. (Don't remove the arcs)

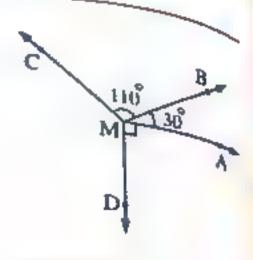
[b] In the opposite figure:

 $m (\angle AMB) = 30^{\circ}$

• m (\angle BMC) = 110°

and m (\angle AMD) = 90°

Find: m (\(CMD \)



[a] In the opposite figure :

AO // HD // YX // CB

AD = DX = XB and AC = 18 cm.

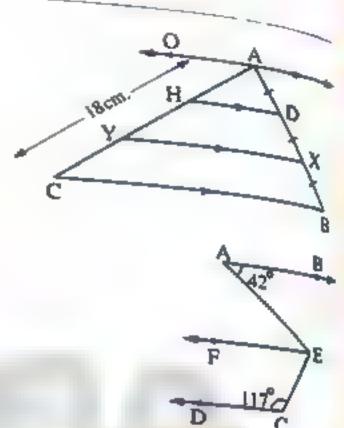
Find: The length of AY

[b] In the opposite figure:

AB // CD , EF // CD

, m (\angle A) = 42° and m (\angle C) = 117°

Determine: m (∠ AEC)



6) Alexandria Governorate

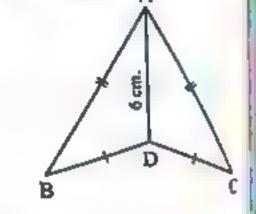
El-Montaza Educational Zone Mattin Rupervictors

Answer the following questions:

Complete:

9 ,

- 1. The angle of measure complements an angle of measure 25°
- The sum of measures of the accumulative angles at a point is equal to
- 3 In the opposite figure: If the perimeter of the shape ABDC = 20 cm. and the length of $\overline{AD} = 6$ cm.
 - , then the perimeter of \triangle ABD = cm.
- 4, If a straight line intersects two parallel straight lines
- then every two corresponding angles are in measure.



Choose the correct answer:

1 In the opposite figure:

If $\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}$, then $\chi = \dots$

(a) 30°

(b) 45°

(c) 60°

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(d) 90°

- [2] If m (\angle B) = 38°, then its supplementary angle is of measure
- (b) 142°
- (c) 228°
- (d) 322°

- 3 In the opposite figure:
 - \overrightarrow{AM} bisects $\angle BAC$, then m ($\angle BAC$) =

 - (c) 142°

- (b) 76°
- (d) can't be calculated.

- In the opposite figure : X =
 - (a) 70°

(b) 90°

(c) 110°

(d) 290°



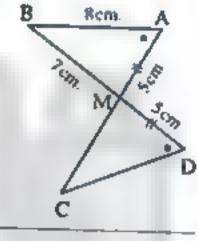
$$\overline{AC} \cap \overline{BD} = \{M\}$$
, $AM = MD = 5$ cm.

- and m ($\angle A$) = m ($\angle D$), then CD =cm.
- (a) 5

(b) 7

(c) 8

(d) 12



[a] In the opposite figure :

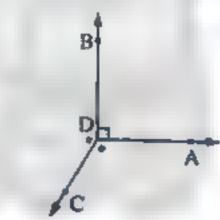
$$m (\angle ADB) = 90^{\circ}$$

- DC bisects the reflex angle BDA
- Calculate: m (∠ BDC)



$$AB = AD \cdot BC = 7 \text{ cm. } \cdot m (\angle B) = 100^{\circ}$$

and m (\angle BAC) = m (\angle DAC) = 30°



1 Is \triangle BAC \equiv \triangle DAC? Why? **2** Find: m (∠ ACD) and the length of CD

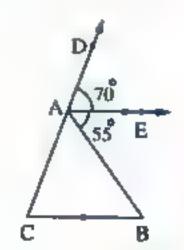
[a] In the opposite figure:

ABC is a triangle where the point A ∈ CD

$$\overline{AE}$$
 // \overline{CB} \overline{DAE}) = 70°

and m (\angle EAB) = 55°

Calculate the measure of each angle in the triangle ABC

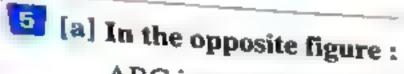


كراسة العاصو رياضيات (لفات) / إمنادي / تهرم ١ (٢: ١٠)

[h] Draw a line segment AB of length 8 cm., then draw its line of symmetry.

(perpendicular bisector of it)

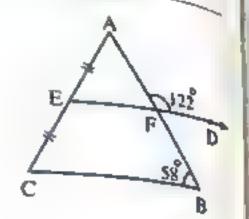
(Don't remove the ares)



ABC is a triangle, E is the midpoint of AC , EF intersects AB at F, m (\angle AFD) = 122°

and m ($\angle B$) = 58°

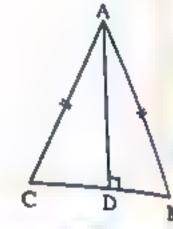
Is EF // CB? Why?



[b] In the opposite figure:

ABC is an isosceles triangle and AD L BC

Why does $m (\angle C) = m (\angle B)$?



Alexandria Governorate

inspectorate of Mathematics



Answer the following questions:

Choose the correct answer:

1 In the opposite figure:

m (\angle C) = 80°, \overrightarrow{AB} // \overrightarrow{CD} , then $x = \dots$

(a) 80°

9 2

(b) 50°

(c) 40°

- Two triangles are congruent if are congruent.
- (a) two corresponding sides
 - (b) two corresponding sides and the included angle
 - (c) a side and an angle with their corresponding
 - (d) their corresponding angles

[3] If $\triangle ABC = \triangle XYZ$, then $BC = \dots$

(a) XY

(b) AB

(c) XZ

(d) YZ

(d) 100°

- 4 The acute angle supplements angle.
 - (a) an acute
- (b) a right
- (c) an obtuse
- (d) a straight
- 5. If two straight lines intersects, then each two angles have the same measure
 - (a) vertically opposite

(b) adjacent

(c) alternate

(d) corresponding

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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى المعلودية العمل العماميرية المعاميرية ال

B) The image of the point (-3,5) by translation (0,-10) is Final Examinations

(a)
$$(3, -5)$$

Complete each of the following:

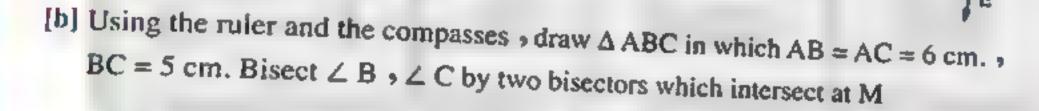
- 1 If a straight line intersects two parallel straight lines , then each two alternate angles
- 2] If the ratio between the measures of two supplementary angles is 1:2: then the measure of the smaller angle equals
- 3) If $\angle A \equiv \angle B$, then m ($\angle A$) m ($\angle B$) =
- The perpendicular bisector of a line segment is called
- 5) The square has axes of symmetry.

[a] In the opposite figure :

$$\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}, m (\angle AMC) = 40^{\circ}$$

and MD bisects ∠ BME

Find: m (∠ AME)



(Don't remove the arcs)

[a] In the opposite figure :

$$m (\angle BAD) = m (\angle BCD) = 90^{\circ}$$

$$m (\angle ADB) = 31^{\circ}, AB = CB = 3 \text{ cm.}, AD = 5 \text{ cm.}$$

- 1 Is \triangle ABD \equiv \triangle CBD? Why?
- Find: The length of CD
- 3 Find: m (∠ ADC)

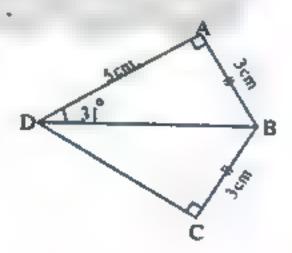


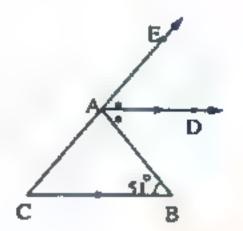
AD // BC

AD bisects Z EAB

 $m (\angle ABC) = 51^{\circ}$

Find: $m (\angle BAD)$ and $m (\angle C)$





هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والعمولية

5 [a] In the opposite figure :

AB // CD // EF, AC = CE, DB = 5 cm.

Find: The length of BF

by giving the reason.

[b] In the opposite figure:

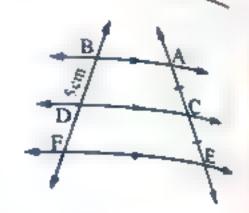
The polygon ABCF

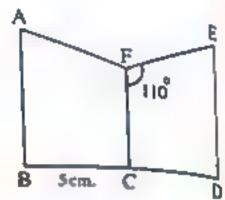
≡ the polygon EDCF

• m (\angle EFC) = 110° • BC = 5 cm.

Find: $1m (\angle AFC), m (\angle AFE), m (\angle FCB)$

2 The length of BD





El-Kalyoubia Governorate

Directorate of Education Math Supervicion



Answer the following questions:

Choose the correct answer from those given:

- 1 If two straight lines intersect, then each two angles have the same measure,
 - (a) corresponding (b) alternate
- (c) adjacent
- (d) vertically opposite
- 2 If two straight lines are perpendicular to a third, then the two straight lines are
 - (a) intersecting.
- (b) perpendicular. (c) parallel.
- (d) coincident.
- 3 The rectangle has lines of symmetry.
 - (a) zero
- (b) 2
- (c) 3
- (d) 4
- If \triangle ABC \equiv \triangle LMN, then m (\angle BCA) = m (\angle )
 - (a) MNL
- (b) MLN
- (d) NLM

- 5 If AB = CD , then AB CD =
 - (a) 1

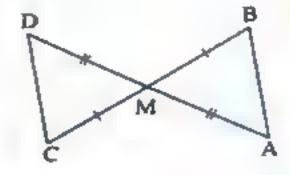
- (b) 2
- (c) zero
- (d)5
- Any two line segments are congruent if they are equal in
- (a) measure.
- (b) capacity.
- (c) weight.
- (d) length.

Complete the following :

- 1 The two straight lines parallel to a third are
- 2 If m (\angle B) = 110°, then m (reflex \angle B) =°
- 3 The two adjacent angles formed by intersecting of a straight line and a ray are

- The two right-angled triangles are congruent if
- A square of side length 7 cm. then its area = cm².
- 3 [a] In the opposite figure :

$$\overrightarrow{AD} \cap \overrightarrow{BC} = \{M\}$$
, $\overrightarrow{MB} = MC$, $\overrightarrow{MA} = \overrightarrow{MD}$
Write the conditions for \triangle AMB and \triangle DMC to be congruent:

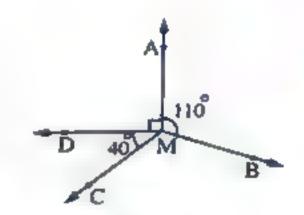


[b] Using the opposite figure, complete:

$$T m (\angle AMB) + m (\angle BMC)$$

+ $m (\angle CMD) + m (\angle DMA) = \cdots$

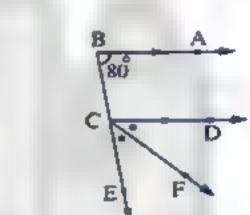
2] m (BMC) = = •



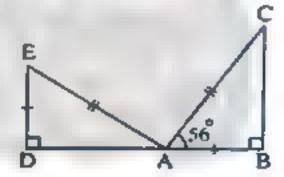
[a] In the opposite figure :

$$\overline{BA} // \overline{CD} \cdot m (\angle B) = 80^{\circ} \cdot \overline{CF}$$
 bisects $\angle DCE$
Complete:





[b] Using the opposite figure, complete:

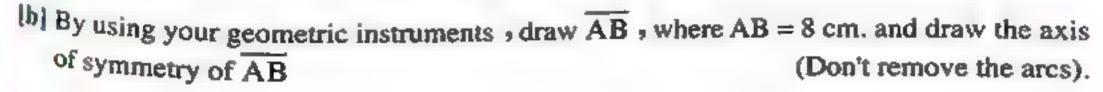


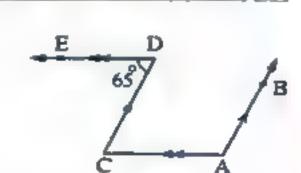
[a] In the opposite figure:

$$\overrightarrow{DE} // \overrightarrow{AC}, \overrightarrow{AB} // \overrightarrow{CD}, m (\angle D) = 65^{\circ}$$

Complete:

1)
$$m(\angle C) = m(\angle \cdots) = \cdots$$





El-Sharkia Governorate

Department Malke



Answer the following questions:

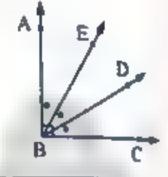
Complete each of the following:

- 1 The angle whose measure is 30° complements an angle of measure °
- 2 If \triangle ABC \equiv \triangle XYZ, m (\angle A) + m (\angle B) = 110°, then m (\angle Z) = · · · · · °
- [3] If m ($\angle A$) = 140°, then m (reflex $\angle A$) =°
 - 4 If a straight line cuts two parallel straight lines, then each two corresponding angles аге

5 In the opposite figure:

If BA L BC

, then m (∠ CBD) = ···· · ·°



Choose the correct answer:

1 In the opposite figure :

(a) 25°

(b) 30°

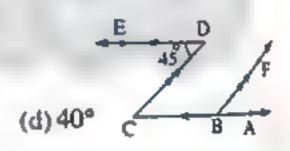
(c) 60°

(d) 125°

2 In the opposite figure:

m (∠ ABF) = ···· (a) 45°

(c) 135°



The angle of measure 98° its type is

(a) acute.

(b) right.

(b) 90°

(c) obtuse.

(d) straight.

The sum of measures of the accumulative angles at a point equals

(a) 90°

(b) 180°

(c) 630°

(d) 360°

5 If m ($\angle A$) = 2 m ($\angle B$) $\Rightarrow \angle A$ supplements $\angle B$ \Rightarrow then m ($\angle B$) $\Rightarrow \cdots \cdots$

(a) 30°

(b) 60°

(c) 90°

(d) 120°

B The obtuse angle supplements angle.

(a) an acute

(b) an obtuse

(c) a zero

(d) a right

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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخر الصف الاول الاعدادي صحيطكي التعليمي التعليمي

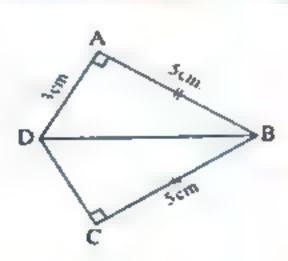
[a] In the opposite figure :

$$m (\angle BAD) = m (\angle BCD) = 90^{\circ}$$

$$AB = CB = 5 \text{ cm. } AD = 3 \text{ cm.}$$

[b] In the opposite figure:

If AB // CD , m (
$$\angle$$
 D) = 65°, m (\angle A) = 115°



(a) In the opposite figure :

If
$$B \in \overline{AC} \cdot m (\angle DBC) = 135^{\circ}$$

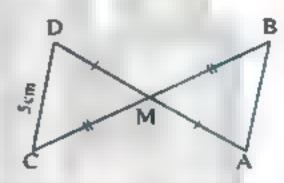
, find :

[b] From the opposite figure , complete :

$$11\Delta ABM \equiv \Delta \cdots$$

$$a AB = \cdots \cdots cm$$
.

$$\mathbf{m} (\angle \mathbf{B}) = \mathbf{m} (\angle \cdot \cdot \cdots \cdot \cdots)$$



135

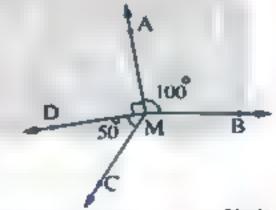
[a] In the opposite figure:

$$m (\angle BMA) = 100^{\circ}$$

$$_{9}$$
 m (\angle AMD) = 90°

$$m (\angle DMC) = 50^{\circ}$$

Find with steps: m (\(\mathcal{L} \) BMC)



[b] Draw the line segment AB of length 8 cm. • then construct the axis of symmetry of AB (Don't remove the arcs)

El-Monofia Governorate

Shiber Elkom Directorate Supervisor of Math



Answer the following questions:

Choose the correct answer:

1 If m (
$$\angle A$$
) = 130°, then m (reflex $\angle A$) = ...

(a) 130°

(b) 50°

(c) 285°

(d) 230°

2 If the triangle ABC = the triangle XYZ, the	hen AC ≡ · ·
	HOIL A

- (a) AB
- (b) XY
- (c) YZ
- (d) XZ

3 If two adjacent angles are supplementary, then their outer sides are

(a) perpendicular.

(b) coincident.

(c) skew.

(d) on the same straight line.

4 If the perimeter of a square is 24 cm. , then its area is

- (a) 8 cm^2 .
- (b) 9 cm².
- (c) 3 cm².
- (d) 36 cm².

5 In the opposite figure: The number of rectangles =

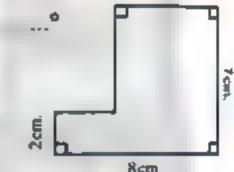
- (a) 4
- (b) 6
- (c) 8
- (d) 10

6 If L // M , L // N , then the two straight lines M and N are

- (a) perpendicular.
- (b) parallel.
- (c) intersecting. (d) congruent.

Complete:

- 1] Two triangles are congruent if two sides and congruent with the corresponding parts from the other triangle.
- 2 If a straight line cuts two straight lines and two corresponding angles are equal in measure , then the two straight lines are
- [3] The angle of measure 50° complements an angle of measure
- Two angles are congruent if
- 5) The perimeter of the opposite figure equalscm.



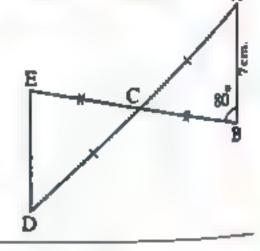
[a] Use the geometric instruments to draw \angle ABC of measure 125°, then bisect it. (Don't remove the arcs)

[b] In the opposite figure:

$$\overrightarrow{AD} \cap \overrightarrow{BE} = \{C\}, AC = CD$$

$$, BC = CE , AB = 7 cm. , m (\angle B) = 80^{\circ}$$

- 1 Is \triangle ABC \cong \triangle DEC? Why?
- 2 Find: The length of ED, m (∠E)

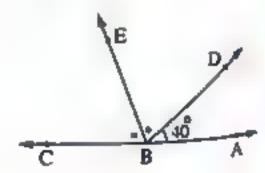


[a] In the opposite figure:

$$B \in \overrightarrow{AC}$$

,
$$\overrightarrow{BE}$$
 bisects \angle DBC , m (\angle ABD) = 40°

Find: m (Z DBC) , m (Z ABE)

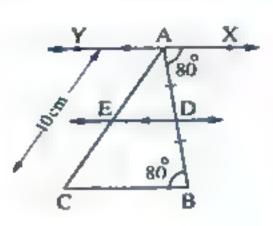


[b] In the opposite figure:

$$m (\angle XAB) = 80^{\circ} m (\angle B) = 80^{\circ}$$

$$AD = BD$$
 $AC = 10$ cm.

Find: The length of AE, give reason



[a] In the opposite figure :

$$AB = CB$$
, $AD = CD$

$$, m (\angle CDB) = 25^{\circ}$$

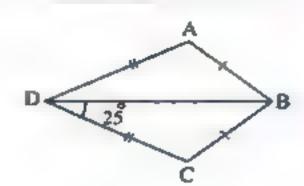
Is
$$\triangle ABD \equiv \triangle CBD$$
? Why?

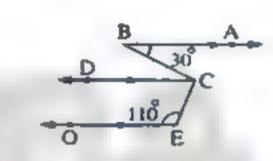
[b] In the opposite figure:

$$_{2}$$
 m (\angle ABC) = 30°

$$m (\angle CEO) = 110^{\circ}$$

Find: m (\(\mathcal{L}\) BCE)





El-Gharbia Governorate

The central Matha Supervision Official Language Schools



Answer the following questions:

Choose the correct answer:

- If m ($\angle A$) = 65°, then m (reflex $\angle A$) =
- (b) 295°
- (d) 115°
- The acute angle complements angle.
 - (a) a right
- (b) an obtuse
- (c) an acute
- (d) a straight

3 ABCD is a rectangle , then AC =

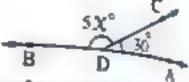
- (a) BD
- (b) AD
- (c) DC
- (d) BC
- - (a) 90°
- (b) 180°
- (c) 270°
- (d) 360°
- - (a) 30°
- (b) 45°
- (c) 60°
- (d) 120°
- The two straight lines parallel to a third straight line are
 - (a) intersecting.
- (b) parallel.
- (c) coincident.
- (d) perpendicular.

كراسة البحاصر رياضيات (لغات) / ١ إعبادي / تيرم ١ (١١ ١٠)

Complete each of the following:

- 1 The angle whose measure is more than 90° and less than 180° is
- 2 Two angles are congruent if
- 3 If two adjacent angles are complementary, then their outer sides are
- 4 In the opposite figure:

m (
$$\angle$$
 ADC) = 30° and m (\angle BDC) = 5 χ , then χ =



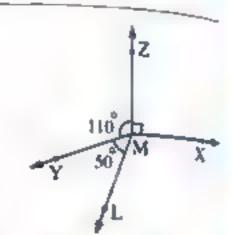
- 5 If a straight line intersects two parallel straight lines , then each two alternate angles are
- 3 [a] In the opposite figure:

$$m (\angle XMZ) = 90^{\circ}$$

$$m (\angle ZMY) = 110^{\circ}$$

and m (
$$\angle$$
 YML) = 50°

Find by steps: $m (\angle XML)$

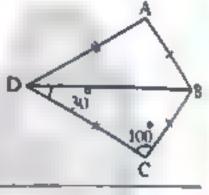


[b] In the opposite figure:

$$AB = CB \cdot AD = CD \cdot m (\angle C) = 100^{\circ}$$

and m (
$$\angle$$
 BDC) = 30° Is \triangle ABD = \triangle CBD? Why?

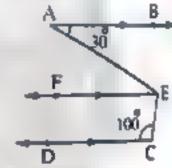
, then find : m (∠ ABD) (Write the steps)



[a] In the opposite figure :

$$m (\angle C) = 100^{\circ} , m (\angle A) = 30^{\circ}$$

Find by steps: m (∠ AEC)

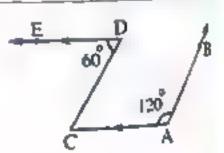


(b) Draw ∠ ABC of measure 80°, then using the ruler and compasses bisect ∠ B

(Don't remove the arcs)

[a] In the opposite figure :

$$\overline{DE}$$
 // \overline{AC} , m ($\angle A$) = 120° , m ($\angle D$) = 60°

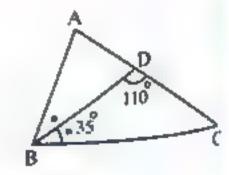


[b] In the opposite figure :

$$\overline{BD}$$
 bisects \angle ABC \Rightarrow m (\angle DBC) = 35°

$$, m (\angle BDC) = 110^{\circ}$$

Find by steps:
$$m (\angle C)$$
 and $m (\angle A)$



stanailia Governorate



Answer the following questions:

Choose the correct ans	wer	-
------------------------	-----	---

- 1 If $\triangle ABC \equiv \triangle XYZ$ 3 m ($\angle A$) + m ($\angle B$) = 100° 3 then m ($\angle Z$) = .
 - (a) 50°
- (b) 80°
- (c) 90°
- (d) 100°
- 2 If $\angle M = \angle N$ and $\angle M + \angle N$ are supplementary angles then m ($\angle M$) =
 - (a) 180°
- (b) 45°
- (c) 360°
- (d) 90°
- 3 The sum of the measures of the accumulative angles at a point is · · · · · · · right angles.
 - (a) 360
- (b) 2
- (c) 4
- (d) 630
- 4 If two straight lines are parallel to a third straight line , then they are
 - (a) perpendicular.
- (b) parallel.
- (c) coincident,
- (d) intersecting.
- 5 The measure of the complement of an angle of measure 20° is
 - (a) 70°
- (b) 180°
- (c) 90°
- (d) 160°
- B) The type of the angle of measure 185° is angle.
 - (a) an acute.
- (b) a reflex.
- (c) an obtuse.
- (d) a straight.

2 Complete:

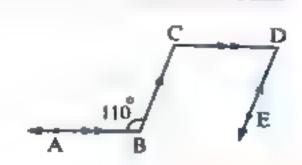
- 1 If $\triangle ABC = \triangle XYZ$, then $AC XZ = \cdots$
- 2 The two adjacent angles formed by intersecting of a straight line and a ray are
- 3 If a straight line intersects two parallel lines , then each two corresponding angles
- Two triangles are congruent if two sides and the ---- angle of one of them are congruent to their corresponding parts of the other.
- 5 The right angle supplements an angle of measure

[a] In the opposite figure :

BA // CD, CB // DE

, m (∠ B) = 110°

Find: $m (\angle D)$



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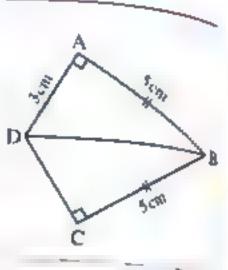
هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى الصف الاول الاعدادي مصطح التعليمي التعليمي المعامد الدي المعامد المعامد

[b] In the opposite figure:

$$m (\angle A) = m (\angle C) = 90^{\circ}$$

$$AB = BC = 5 \text{ cm. } AD = 3 \text{ cm.}$$

- 1 Mention the conditions for Δ ABD 3 Δ CBD to be congruent.
- 2) Find: The length of CD



[a] In the opposite figure :

$$\overrightarrow{AC} \cap \overrightarrow{BD} = \{B\}$$

$$_{9}$$
 m (\angle ABD) $\approx 30^{\circ}$

$$_{1}$$
 m (\angle DBC) = 5 χ

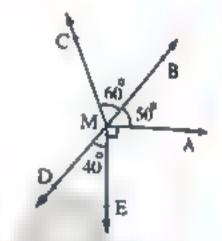
Find in degrees: The value of X



$$m (\angle AME) = 90^{\circ} \cdot m (\angle AMB) = 50^{\circ}$$

$$_{9}$$
 m (\angle BMC) = 60° $_{9}$ m (\angle DME) = 40°

Find: m (\(\subset DMC \)

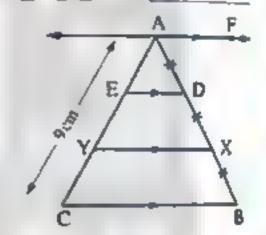


[2] In the opposite figure :

$$,AD = DX = XB$$

$$AC = 9 cm$$
.

Find: The length of AY



[b] Using the geometric tools → draw ∠ ABC whose measure is 120° → then draw the bisector of ∠ ABC

13 Damietta Governorate

Demiette Education Zone
Inspector of Math



Answer the following questions:

Choose the correct answer:

- 1 The angle of measure 95° 60 is supplementary to an angle of measure
 - (a) 75
- (b) 84
- (c) 90
- (d) 100
- 2 cm. , 5 cm. , is called
 - (a) isosceles.
- (b) equilateral.
- (c) right.
- (d) scalene.

- The two vertically opposite angles are
- (a) corresponding. (b) congruent.
- (c) supplementary. (d) alternate.
- If AB, CD are congruent, then AB CD =
- (a) zero
- (b) 1
- (c) 2
- (d) 3
- 5) If the two triangles ABC, XYZ are congruent, $m(\angle X) = 50^{\circ}$ and $m(\angle Z) = 60^{\circ}$,
 - (a) 50
- (b) 60
- (c) 70
- (d) 110
- s If two straight lines are parallel to a third , then they are
- (a) perpendicular. (b) parallel.
- (c) coincident.
- (d) intersecting.

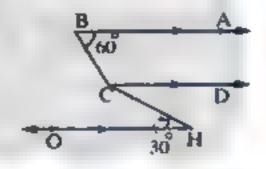
Complete:

- 1 The perpendicular straight line to a line segment from its midpoint , is called
- 2 If a straight line cuts two parallel straight lines , then each two alternate angles
- The two adjacent angles resulting from intersection of a ray and a straight line are
- 5 If the triangle ABC = the triangle XYZ, then m (∠C) = m (∠ ······)
- 3 [a] Draw AB of length 6 cm. 3 then draw its axis of symmetry by using geometrical tools. (Don't remove the arcs)
 - [b] In the opposite figure:

$$_{1}$$
 m (\angle H) = 30 $^{\circ}$

$$_{9}$$
 m (\angle B) = 60°

Find: m (∠ BCH) • give reason.



[a] In the opposite figure :

$$\overline{CD} // \overline{BA}$$
, m ($\angle C$) = 90°

, BH bisects ∠ ABO

Find: m (∠ OBH) , give reason.

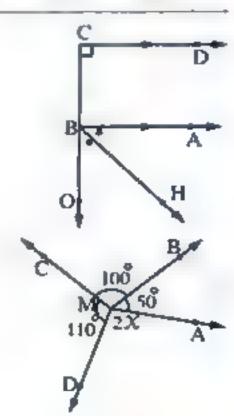
[b] In the opposite figure:

$$m (\angle AMB) = 50^{\circ}$$

$$m (\angle CMD) = 110^{\circ}$$

$$m (\angle AMD) = 2 x$$

Find: The value of X, give reason.



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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والعيولة العمل العمامير المعامير

Geometry .

[5] [a] Mention two cases of congruency of two triangles.

(b) In the opposite figure:

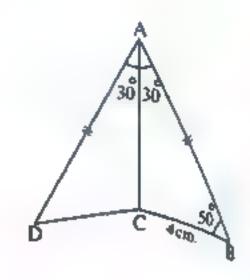
If $AB = AD \cdot BC = 4 \text{ cm}$.

- $m (\angle B) = 50^{\circ}$
- m (\angle BAC) = m (\angle DAC) = 30°

Are the two triangles BAC and DAC congruent?

Write the conditions and the results.

, then find : m (\(\subset D \) , the length of CD



Beni Suef Governorate

"Directorate of Official Language



3 X

Answer the following questions:

Choose the correct answer:

- - $(a) 45^{\circ}$
- (b) 90°
- (c) 100°
- (d) 180°

2 In the opposite figure:

If $\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}$, $m (\angle AMD) = 150^{\circ}$

and m (\angle CMB) = 3 \times , then the value of $\times = \cdots$.

- (a) 25°
- (b) 50°
- (c) 100°
- (d) 150°

- 3 If $\triangle ABC = \triangle XYZ$, then $AC = \cdots$
 - (a) BC
- (b) YZ
- (c) XZ
- (d) XY
- [4] If two straight lines are parallel to a third straight line , then these two straight lines are to each other.
 - (a) intersecting
- (b) perpendicular
- (c) coincident
- (d) parallel
- [5] The angle of measure 179° is angle.
 - (a) an acute
- (b) a right
- (c) an obtuse
- (d) a straight

- B AB AB
 - (a) ∈
- (b)∉
- (c) □
- (d) ⊈

Complete:

- than
- 2 Two triangles are congruent if two angles and

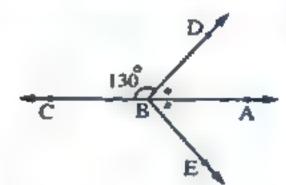
- 3 If $\angle A \equiv \angle B$ and m ($\angle A$) = 50°, then m ($\angle B$) =
- If a straight line intersects two parallel straight lines, then every two interior angles on one side of the transversal are
- in \triangle ABC, if m (\angle A) = 40° and m (\angle B) = 80°, then m (\angle C) =°
- In Using the geometric instruments, draw ∠ ABC of measure 120°, then draw BF to bisect the angle. (Don't remove the arcs)



$$m (\angle DBC) = 130^{\circ}$$

and BA bisects ∠ DBE

, find: m (∠ ABD) and m (∠ DBE) (Give reason)



[a] In the opposite figure :

$$AD = DC \cdot AB = 7 \text{ cm}.$$

and m (
$$\angle$$
 ADB) = m (\angle BDC) = 40°

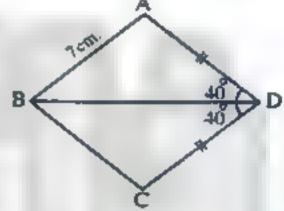
- 1. Prove that : $\triangle ABD = \triangle CBD$
- Find: The length of BC (Give reason)

[b] In the opposite figure:

$$m (\angle BAD) = m (\angle BCD) = 90^{\circ}$$

and AB = DC

Is $\triangle ABD = \triangle CDB$? Why?





[a] In the opposite figure:

and m (
$$\angle$$
 EDC) = 70°

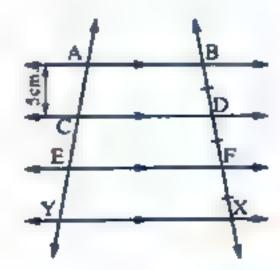
Find: m (∠ DCA) and m (∠ BAF) (Give reason)

[b] In the opposite figure:

$$\overrightarrow{AB} / \overrightarrow{CD} / \overrightarrow{EF} / \overrightarrow{XY}$$
, $\overrightarrow{AC} = 5 \text{ cm}$.

and
$$BD = DF = FX$$

Find: The length of AY (Give reason)



Geometri

South Sinai Governorate

For Cinal Educational Zana



Answer the following questions:

Choose the correct answer:

- The angle whose measure is 30° complements the angle whose measure is ...
 - (a) 90
- (b) 180
- (c) 60
- (d) 150
- - (a) 90
- (b) 100
- (c) 360
- (d) 180
- 3 If $\triangle ABC \equiv \triangle XYZ \rightarrow m (\angle A) = 60^{\circ} \rightarrow m (\angle B) = 40^{\circ} \rightarrow then m (\angle Z) = \cdots \cdots$
 - (a) 100
- (b) 70
- (c) 80
- (d) 90
- If m ($\angle X$) = 100° s then m (reflex $\angle X$) =
 - (a) 360
- 081 (d)
- (c) 260 ·
- (d) 80
- 5 If two straight lines intersect 5 then each two
- angles are equal in measure.

- (a) corresponding
- (b) alternate
- (c) adjacent
- (d) vertically opposite
- 1 The sum of measures of two adjacent angles formed by the intersection of a straight line and a ray with a starting point on this straight line equals
 - (a) 90
- (b) 180
- (c) 270
- (d) 360

Complete:

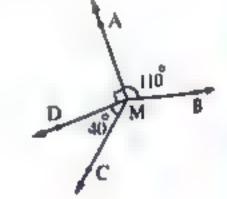
- 1 The two perpendicular lines on a third are
- 2 A circle of radius length 7 cm. then its area = · · · · · cm² (where $\pi = \frac{22}{7}$)
- 3. The two right-angled triangles are congruent if , are congruent to their corresponding parts in the other triangle.
- If the two lines L_1 , L_2 are two parallel lines, then $L_1 \cap L_2 = \cdots$

[3] [a] In the opposite figure :

$$m (\angle AMB) = 110^{\circ} \ _{2} \ m (\angle AMD) = 90^{\circ}$$

, m (
$$\angle$$
 DMC) = 40°

Find: m (\(\subseteq \text{BMC} \)



[b] In the opposite figure:

$$m(\angle A) = m(\angle C) = 90^{\circ}$$

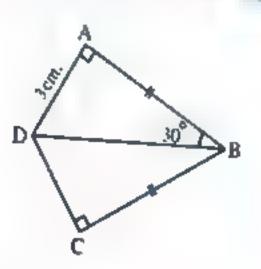
$$AD = 3 \text{ cm.} \cdot \text{m} (\angle ABD) = 30^{\circ} \cdot AB = BC$$

Write the conditions of congruency

of the two triangles ABD, CBD

, then find: The length of CD and m (DBC)

Final Examinations



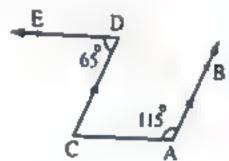
[a] In the opposite figure:

$$\overrightarrow{AB}$$
 // \overrightarrow{CD} , m ($\angle A$) = 115°

$$m (\angle D) = 65^{\circ}$$

Find:
$$m(\angle C)$$

Is AC // DE? Give reason.

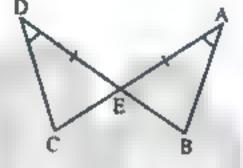


(b) In the opposite figure:

$$\overline{AC} \cap \overline{BD} = \{E\}$$

$$,AE = ED , m (\angle A) = m (\angle D)$$

Write the conditions of congruency of the two triangles.



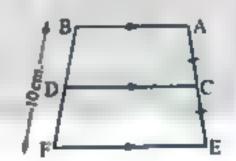
[a] By using your geometric instruments 1 draw ∠ ABC whose measure is 80°

then draw BD to bisect the angle.

[b] In the opposite figure:

$$,AC = CE ,BF = 10 cm.$$

Find by reason: The length of BD



Cairo Governorate

Near City Educational Zone St.Fatime Language School



Answer the following questions:



Choose the correct answer:

- $(a) 45^{\circ}$
- (b) 90°
- (c) 135°
- (d) 180°

2 If two straight lines are perpendicular to a third , then the two straight lines are

- (a) perpendicular. (b) parallel.
- (c) intersecting.
- (d) congruent.

3 If $\triangle ABC \equiv \triangle XYZ$, $m(\angle A) + m(\angle B) = 100^{\circ}$, then $m(\angle Z) = \dots$

- (a) 90°
- (b) 100°
- (c) 50°
- (d) 80°

4 From the opposite figure:

X =

(a) 60°

(b) 140°

(c) 30°

(d) 180°

5 In the opposite figure:

AF // XD // YE // CB

AX = XY = YC, then AD: AB =

- (a) 1:1
- (b) 1:2
- (c) 1:3

6 If \triangle ABC \cong \triangle LMN, then m (\angle ACB) = m (\angle )

- (a) LMN (b) MLN (c) LNM

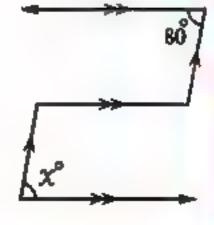
Complete:

1 If the ratio between the measures of two adjacent supplementary angles is 1:2 then the measure of the largest angle is

2 If m ($\angle A$) = 120°, then m (reflex $\angle A$) =°

3 Two triangles are congruent if each side of

4 From the opposite figure :

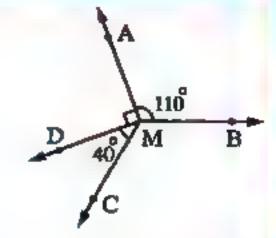


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التجسيل التصواسي التكويل

5 From the opposite figure:



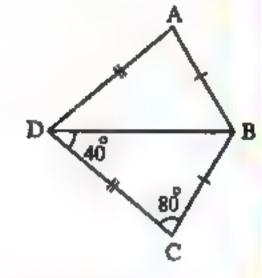
[a] In the opposite figure:

$$AB = BC$$
, $AD = CD$

$$m (\angle C) = 80^{\circ}$$

$$_{9}$$
 m (\angle BDC) = 40°

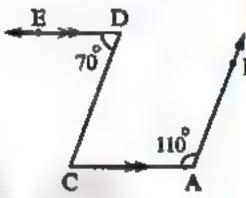
Prove that:
$$\triangle CBD \equiv \triangle ABD$$
 and find: m ($\angle ABD$)



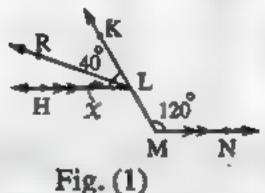
[b] In the opposite figure:

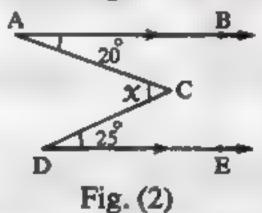
$$\overline{DE} // \overline{AC} \cdot m (\angle A) = 110^{\circ}$$

$$m (\angle D) = 70^{\circ}$$



[a] In each of the following figures, find the value of X and give reason to your answer:





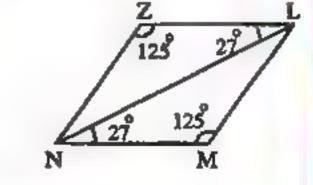
[b] Draw any acute-angled triangle, construct the perpendicular bisector of each side. Do the perpendicular bisectors intersect at one point?

[a] From the opposite figure :

Prove that:

The two triangles LMN and NZL are congruent

, then find: m (L LNZ)



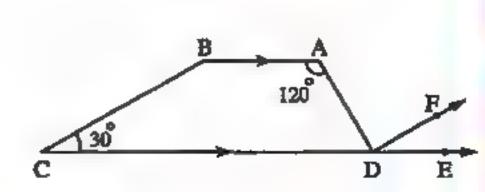
[b] In the opposite figure:

$$\overrightarrow{AB} / / \overrightarrow{CE} , m (\angle BAD) = 120^{\circ}$$

$$m (\angle BCD) = 30^{\circ}$$

, m (∠ BAD) is four times m (∠ FDE)

Prove that: DF // BC and DF \(\text{AD} \)



د کهروان

هذا العمل حصرى على موقع ذاكرولى التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى https://www.zakrooly.com للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا



Cairo Governorate

El-Zeitoun Educational Zona El-Ma'aref Modern Language School



Answer the following questions:

Choose the correct answer :

- If two straight lines are perpendicular to a third then the two straight lines are
 - (a) perpendicular. (b) parallel.
- (c) congruent.
- (d) intersecting.

- 2 If \triangle ABC \equiv \triangle XYZ , $m(\angle A) + m(\angle B) = 100°$, then $m(\angle Z) = \cdots$
 - (a) 50°
- (b) 90°
- (c) 80°
- (d) 100°
- 3 The image of the point (-3,5) by translation of 3 units in the negative direction of the y-axis is
- (a) (-3, 2) (b) (-3, 8) (c) (-6, 5)
- (d) (0,8)

4 In the opposite figure:

$$\overrightarrow{BA} \cap \overrightarrow{CD} = \{C\}$$

- $m (\angle DCA) = 80^{\circ}$
- , then $X = \cdots$
- (a) 20°
- (b) 25°
- (c) 30°
- (d) 100°
- 5 If \triangle ABC \equiv \triangle XYZ , $m(\angle A) = 50^{\circ}$, $m(\angle Y) = 60^{\circ}$
 - , then m (\angle C) =
 - (a) 50°
- (b) 60°
- (c) 70°
- (d) 80°
- 6 The measure of the supplement of the angle whose measure is 30° equals
 - (a) 60°
- (b) 180°
- (c) 90°
- (d) 150°

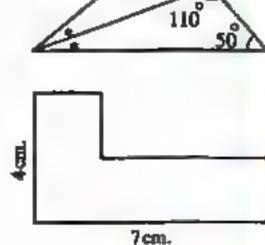
Complete the following:

- If a straight line intersects two parallel straight lines then each two corresponding angles are
- 2 In the opposite figure:

X =



- 3 If $\angle X$ complements $\angle Y$ and $\angle X = \angle Y$ • then m ($\angle X$) =
- The two right-angled triangles are congruent if



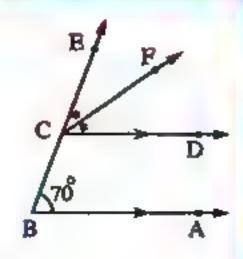
د کهروان

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[a] From the opposite figure, find:

m (Z ECF)

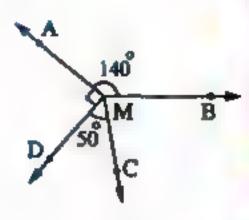
Give the reason.



[b] From the opposite figure, find:

 $m (\angle BMC)$

With steps.



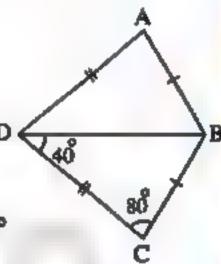
[a] In the opposite figure:

$$AB = BC \cdot AD = CD \cdot m (\angle C) = 80^{\circ} \cdot m (\angle BDC) = 40^{\circ}$$

1 Prove that : $\triangle CBD = \triangle ABD$

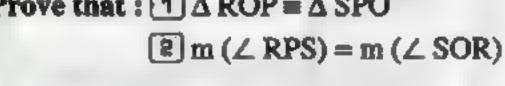
2 Find: m (∠ ABD)

[b] By using your geometric instruments , draw ∠ ABC of measure 110° , then draw BF to bisect the angle.



[a] From the opposite figure :

Prove that : $1 \triangle ROP = \triangle SPO$

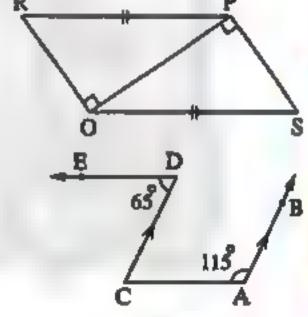


[b] In the opposite figure:

If $\overrightarrow{AB} // \overrightarrow{CD}$, m ($\angle D$) = 65°, m ($\angle A$) = 115°

, then prove that :

AC // DE



Cairo Governorate

Zone Educative Abdine Lunce Bab El-Louk



Answer the following questions:

Choose the correct answer:

1 If $\angle X$ complements $\angle Y$ and $\angle X = \angle Y$, then m ($\angle X$) =

(a) 45°

(b) 90°

(c) 180°

(d) 360°

2 If $\triangle ABC \equiv \triangle XYZ$, $m(\angle A) + m(\angle B) = 100^{\circ}$, then $m(\angle Z) = \cdots$

(a) 50°

(b) 80°

(c) 90°

(d) 100°

د اکھروائ

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Geometry

التهمس التصواحي التكويل

- 3 If two straight lines are perpendicular to a third
 - , then the two straight lines are
 - (a) perpendicular.
- (b) parallel.
- (c) congruent.
- (d) intersecting.
- 4 The sum of the measures of the accumulative angles at a point is
 - (a) 630°
- (b) 180°
- (c) 90°
- (d) 360°
- The measure of the supplement of the angle whose measure is 30° equals
 - (a) 60°
- (b) 180°
- (c) 150°
- (d) 90°
- B The angle whose measure is more than 90° and less than 180° is angle.
 - (a) an obtuse
- (b) an acute
- (c) a right
- (d) a straight

Complete the following:

- The two triangles are congruent if two sides and are congruent with the corresponding parts of the other.
- If $\triangle ABC \equiv \triangle XYZ$, then m ($\triangle Z$) = m ($\triangle \dots$)
- The sum of the measures of the accumulative angles at a point equals
- If m ($\angle A$) = 110°, then m (reflex $\angle A$) =°
- The two adjacent angles formed by intersecting of a straight line and a ray are

3 [a] In the opposite figure:

$$\overrightarrow{AB} / \overrightarrow{CD} / \overrightarrow{EF} \cdot m (\angle A) = 45^{\circ}$$

• m (
$$\angle$$
 E) = 130°

Find: $m(\angle ACE)$

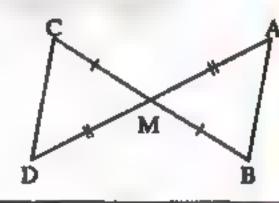


[b] In the opposite figure:

$$\overline{AD} \cap \overline{BC} = \{M\}, BM = MC, AM = MD$$

write the conditions

for \triangle AMB \Rightarrow \triangle DMC to be congruent.



[a] In the opposite figure:

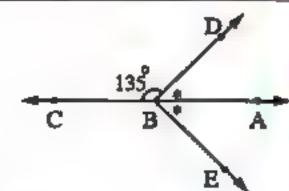
If
$$B \in \overline{AC}$$
, $m (\angle DBC) = 135^{\circ}$

and BA bisects ∠ DBE

Find: $1 m (\angle ABD)$

2 m (\(\text{DBE} \)

3 m (∠ CBE)



[b] By using your geometric instruments , draw ∠ ABC whose measure is 130° then draw BF to bisect the angle.



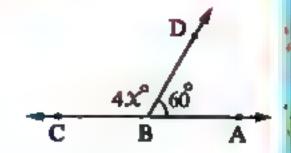
[a] In the opposite figure:

$$\overrightarrow{AC} \cap \overrightarrow{BD} = \{B\}$$

$$\rightarrow$$
 m (\angle ABD) = 60°

$$, m (\angle DBC) = 4 x^{\circ}$$

Find in degrees: The value of X

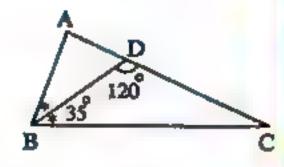


[b] In the opposite figure:

$$\overrightarrow{BD}$$
 bisects \angle ABC \cdot m (\angle DBC) = 35°

$$m (\angle BDC) = 120^{\circ}$$

Find: $m (\angle A)$ in degrees.



Giza Governorate

El-Haren Jone El-Meerefe Exp. Leng. School



Answer the following questions:



Choose the correct answer:

If
$$\triangle ABC = \triangle XYZ$$
, $m(\angle A) = 50^{\circ}$, $m(\angle B) = 60^{\circ}$, then $m(\angle Z) = \cdots$

- (a) 50°
- (b) 60°
- $(c) 70^{\circ}$
- (d) 120°

The sum of measures of the accumulative angles at a point equals

- (a) 180°
- (b) 630°
- (c) 360°
- (d) 603°

3 The angle whose measure is 78° 60, is angle.

- (a) a right
- (b) an acute
- (c) an obtuse
- (d) a straight

- (a) 45°
- (b) 90°
- (c) 100°
- (d) 180°

[5] If two straight lines are parallel to a third straight line , then they are

- (a) perpendicular.
- (b) parallel.
- (c) congruent.
- (d) intersecting.

The measure of the supplement of an angle of measure 35° equals

- $(a) 65^{\circ}$
- (b) 165°
- (c) 180°
- (d) 145°

Complete the following :

The perpendicular bisector of a line segment is called

2 If $m (\angle A) = 160^{\circ}$, then $m (reflex \angle A) = \dots$

3 The two adjacent angles formed by a straight line and a ray with a start point on this straight line are

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Geometry

والكري السك المال المسكم الكراق

- [4] If two straight lines intersect, then each two vertically opposite angles are
- 5 If L, \(\perp L\) and L, \(\perp L\), then L, \(\dots\) then L,

[a] In the opposite figure:

$$\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\} \cdot m (\angle BME) = 80^{\circ}$$

, MC bisects ∠ AME

Find: 1 m (\angle AMC)

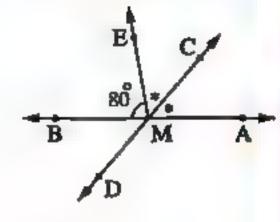
2 m (∠ BMD)

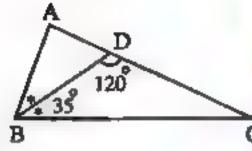


$$\overrightarrow{BD}$$
 bisects \angle ABC \cdot m (\angle DBC) = 35°

 $m (\angle BDC) = 120^{\circ}$

Find: $m (\angle A)$ in degrees.

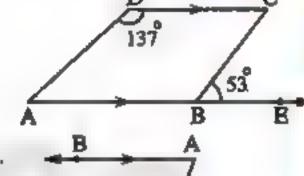




[a] In the opposite figure:

$$\overline{AB}$$
 // \overline{DC} , m ($\angle EBC$) = 53°, m ($\angle D$) = 137°

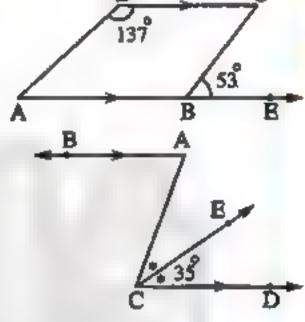
Is BC // AD ? "State the reason"



[b] In the opposite figure:

 $, m (\angle DCE) = 35^{\circ}$

Find: $m(\angle A)$



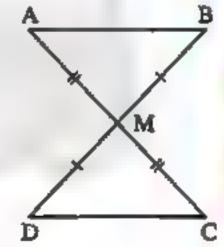
[a] Draw \angle ABC of measure 85°, then bisect it. (Don't remove the arcs)

[b] In the opposite figure:

AM = CM

 $_{9}BM = DM$

Show with the reason if $\triangle ABM \equiv \triangle CDM$ or not.



Giza Governorate

Bouley El-Dukrour Dire, of Edu. Der El-Hanen Lang. Seh. for Girle



Answer the following questions:

Choose the correct answer:

- 1 The supplement of the angle whose measure is 30° is an angle whose measure is
 - (a) 60°
- (b) 180°
- (c) 150°
- (d) 90°

If \triangle ABC \equiv \triangle XYZ and \mathbf{m} (\angle A) + \mathbf{m} (\angle B) = 110°, then \mathbf{m} (\angle Z) =

- (a) 50°
- (b) 60°
- (c) 70°
- (d) 80°



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والكويدا الهماهي الكراي

3 From the opposite figure:

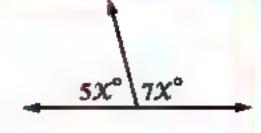
The value of $X = \cdots$

(a) 30°

(b) 15°

(c) 45°

(d) 18°



4 From the opposite figure:

- X = ······
- (a) 20°
- (b) 30°
- (c) 40°
- (d) 120°

The angle of measure 179° is

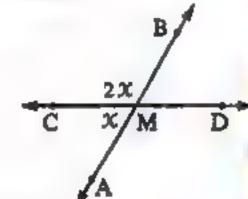
- (a) acute.
- (b) obtuse.
- (c) right.
- (d) straight.

B In the opposite figure:

$$\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}$$
, then $X = \cdots$

(a) 30°

- (b) 60°
- (c) 45° (d) 90°

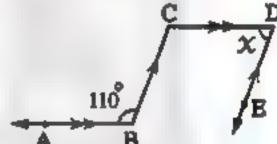


Complete the following:

- 1 The complement of an angle of measure 65° is an angle of measure°
- 2 If $m (\angle B) = 160^{\circ}$, then $m (reflex \angle B) = \dots$
- 3 In the opposite figure:

CD // BA, DE // CB

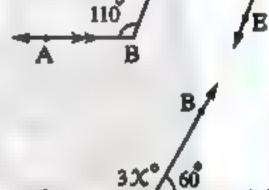
, then $x = \cdots$



4 In the opposite figure:

If $\overrightarrow{MB} \cap \overrightarrow{AC} = \{M\} \cdot m (\angle AMB) = 60^{\circ}$

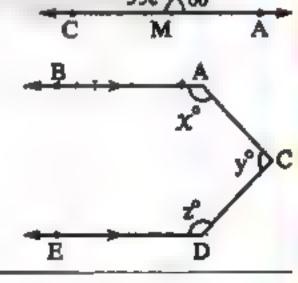
, then the value of X equals°



5 In the opposite figure:

AB // DE

, then $X + y + z = \cdots$

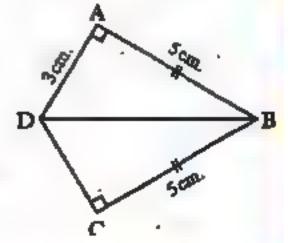


3 [a] In the opposite figure:

 $m(\angle A) = m(\angle C) = 90^{\circ}$

AB = BC = 5 cm. AD = 3 cm.

- 1 Mention the conditions for \triangle ABD \rightarrow \triangle CBD to be congruent.
- 2 Find: The length of CD



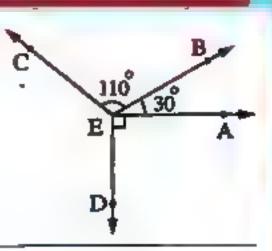


والكريس الديم والمسي الكروان

[b] In the opposite figure:

$$m (\angle AEB) = 30^{\circ} \cdot m (\angle BEC) = 110^{\circ}$$

$$m (\angle AED) = 90^{\circ}$$



[a] In the opposite figure :

$$B \in AC$$
, $m (\angle FBC) = 30^{\circ}$

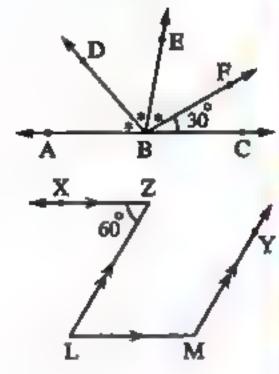
$$m (\angle ABD) = m (\angle DBE) = m (\angle EBF)$$

Find: $m (\angle ABE)$



$$\overrightarrow{ZX} / \overrightarrow{LM}, \overrightarrow{LZ} / \overrightarrow{MY}, m(\angle Z) = 60^{\circ}$$

Find:
$$1 \text{ m} (\angle L)$$

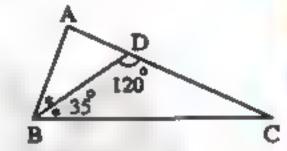


[a] In the opposite figure:

$$\overline{BD}$$
 bisects $\angle ABC \cdot m (\angle DBC) = 35^{\circ}$

$$_{9}$$
 m (\angle BDC) = 120 $^{\circ}$

Find: $m(\angle A)$



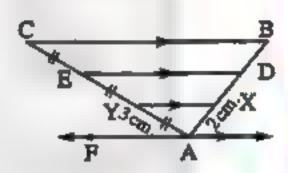
[b] In the opposite figure:

$$\overrightarrow{AF}$$
 // \overrightarrow{XY} // \overrightarrow{DE} // \overrightarrow{BC} and $\overrightarrow{AY} = \overrightarrow{YE} = \overrightarrow{EC}$, $\overrightarrow{AY} = 3$ cm.

, AX = 2 cm. and the perimeter of \triangle ABC = 23 cm.

Find: The length of BC

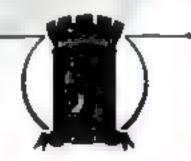
[c] Draw \angle ABC of measure 100° and bisect it.



(Don't remove the arcs)



East Educational Zone Sidi Geber Lung. Sch. for boye



Answer the following questions:

1 Complete the following:

- 2 The two adjacent angles formed by intersecting a straight line and a ray are
- [3] If ∠ A supplements ∠ B and ∠ A supplements ∠ C , then ∠ B and ∠ C are
- 4 Two triangles are congruent if the lengths of two sides and the measure of are congruent with the corresponding parts of the other.



(d) intersecting.

5 If $\angle A$ and $\angle B$ are complementary angles $\rightarrow m (\angle A) = 2 m (\angle B)$, then m ($\angle B$) = ······°

2 Choose the correct answer:

- 1 If two straight lines are perpendicular to a third, then the two straight lines are
- (a) perpendicular. (b) congruent. (c) parallel. 2 The axis of symmetry of a line segment is
 - (a) perpendicular from its midpoint. (b) equal to it.
 - (c) parallel to it.

(d) congruent to it.

3 In the opposite figure:

(a) 80

(b) 120

(c) 100

(d) 180

4 In the opposite figure:

(a) 100

(b) 120

(c) 140

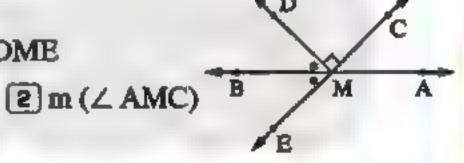
- (d) 240
- B If \triangle ABC = \triangle XYZ , $m(\angle Z) = 55^{\circ}$, then $m(\angle A) + m(\angle B) = 0$
 - (a) 110
- (b) 115
- (c) 120
- (d) 125

[a] In the opposite figure:

$$\overrightarrow{AB} \cap \overrightarrow{CE} = \{M\}, \overrightarrow{MD} \perp \overrightarrow{MC}, \overrightarrow{MB} \text{ bisects } \angle \overrightarrow{DME}$$

Find showing the reason: $1 \text{ m} (\angle BME)$

3 m (\(AME \)



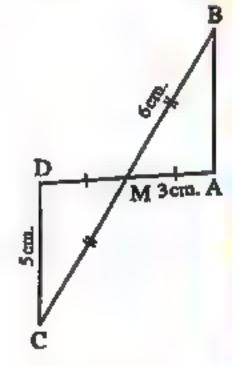
[b] Draw the line segment AB of length 8 cm. , then construct the axis of symmetry of AB (Don't remove the arcs)

[a] In the opposite figure:

Complete:

$$1 \Delta ABM = \Delta \cdots$$

4 The perimeter of
$$\triangle$$
 DMC = cm.

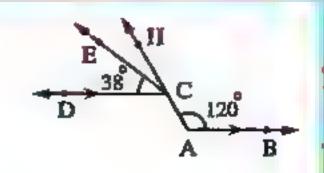


[b] In the opposite figure:

$$\overline{AB} / \overline{DC}$$
, m ($\angle A$) = 120°, H $\in \overline{AC}$

 $_{9}$ m (\angle ECD) = 38 $^{\circ}$

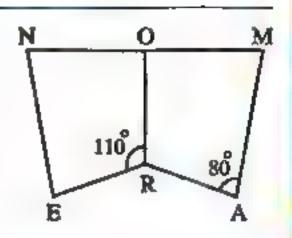
Find: $m(\angle ACD) \rightarrow m(\angle HCE)$ (showing the reason)



5 In the opposite figure:

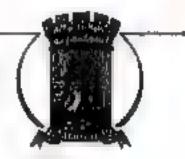
OR is the axis of symmetry of the shape NERAM, OEMN

$$2 \text{ m } (\angle \text{ NOR}) = \text{m} (\angle \cdots)$$



Alexandria Governorate

Borg El-Arab Educational Zone Al-Safwa Integrated Schools



Answer the following questions: (Calculator is allowed)

Complete each of the following:

- 1 The complement of the angle of measure 55° is an angle of measure°
- 2 The sum of measures of the accumulative angles at a point equals
- 3 If m (\angle B) = 160°, then m (reflex \angle B) =°
- 4 The perpendicular bisector of a line segment is called
- 5 The number of triangles in the opposite figure is



Choose the correct answer:

1 If $L_1 // L_2$ and $L_2 \perp L_3$, then

- (a) $L_1 \perp L_2$ (b) $L_3 // L_2$ (c) $L_1 \perp L_3$
- (d) $L_3 // L_1$
- 2 If \triangle ABC \equiv \triangle XYZ and m (\angle A) + m (\angle B) = 110°, then m (\angle Z) =°
 - (a) 50
- (b) 60
- (c) 70
- (d) 80
- 3 If the ratio between the measures of two supplementary angles is 5:13 , then the measure of the smaller angle is
 - (a) 50
- (b) 130
- (c) 150
- (d) 180°

4 The type of the angle of measure 89° 60 is

- (a) acute.
- (b) obtuse.
- (c) right.
- (d) reflex.

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Geometry

التهمسال التحاصي التركي

- 5 The two diagonals are perpendicular and equal in length in the
 - (a) rectangle.
- (b) rhombus.
- (c) square.
- (d) parallelogram.

- B If \triangle ABC \equiv \triangle LMN, then AC LN
 - (a) =

- (b) **≡**
- (c) <
- (d)>

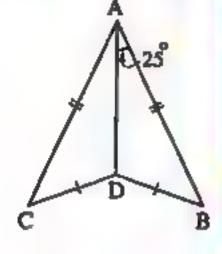
[a] In the opposite figure:

$$AB = AC \cdot BD = CD$$

$$m (\angle BAD) = 25^{\circ}$$

Is
$$\triangle$$
 ADC \equiv \triangle ADB? Why?

Find: $m (\angle CAB)$



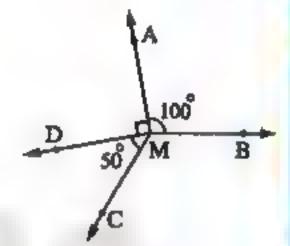
[b] In the opposite figure:

$$m (\angle BMA) = 100^{\circ}$$

$$m (\angle AMD) = 90^{\circ}$$

$$m (\angle DMC) = 50^{\circ}$$

Find with steps: $m (\angle BMC)$

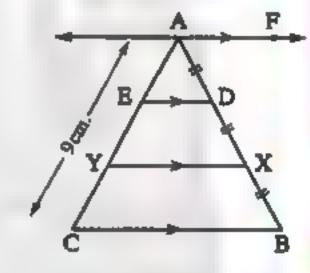


[a] In the opposite figure:

$$,AD = DX = XB$$
 $,AC = 9$ cm.

Find: The length of AY (Give reason)

[b] Draw \(\text{ABC of measure 100° and bisect it.} \)



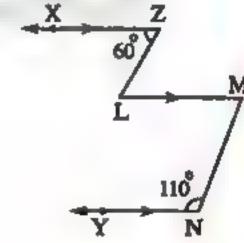
[a] In the opposite figure:

$$m (\angle N) = 110^{\circ}$$

$$m (\angle Z) = 60^{\circ}$$

Find: 1 m (∠ L)

2 m (4 M)

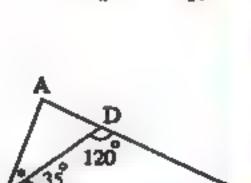


[b] In the opposite figure:

$$m (\angle DBC) = 35^{\circ}$$

$$m (\angle BDC) = 120^{\circ}$$

Find: $m (\angle A)$



د کوروان

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El-Kalyoubia Governorate

Directorate of Education Mathematica Supervision



Answer the following questions:

Choose the correct answer:

1 If \triangle ABC \equiv \triangle XYZ \Rightarrow then AC =

(a) XY

(b) **XZ**

(c) YZ

(d) AB

2 If m (\angle B) = 105°, then m (reflex \angle B) =

(a) 255°

(b) 75°

(c) 105°

(d) 50°

(a) 10

(b)4

(c) 8

(d) 12

4 The measure of the supplementary of the angle whose measure is 30° equals

(a) 60

(b) 80

(c) 150

(d) 90

5 A cube is of volume 125 cm³, then the area of its base = cm².

(a) 5

(b) 15

(c) 25

(d) 10

B The measure of the right angle is°

(a) 60

(b) 90

(c) 180

(d) 70

Complete the following:

1 The two diagonals are equal in length in and

2 The perpendicular bisector of a line segment is called

[5] If two straight lines are perpendicular to a third, then the two straight lines are

[a] In the opposite figure:

 $\overline{DE} // \overline{AC}$, m ($\angle A$) = 110°, m ($\angle D$) = 70°

Complete the following:

 $\mathbf{1}$ m (\angle C) = ······ because ·····

2 Is AB // CD ? (.....) because

[b] Using the geometric instruments, draw \angle ABC where m (\angle B) = 120°

, then draw BD to bisect the angle.

(Don't remove the arcs)



B

[a] In the opposite figure:

 $\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}$, \overrightarrow{ME} bisects $\angle AMC$, $\overrightarrow{m} (\angle BMC) = 116^{\circ}$

Complete the following:

1 m (∠ AMC) =°

2 m (∠ AMD) = ······°

3 m (∠ AME) =°

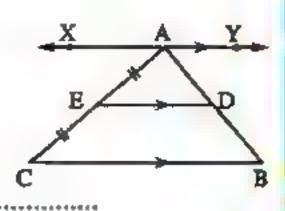
[b] In the opposite figure:

$$\overline{XY} / \overline{ED} / \overline{BC}$$
, $AE = EC$

Complete the following:

1 AD =

2 AD : AB =



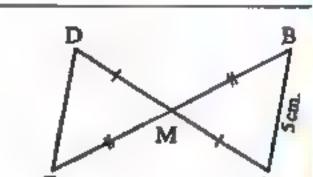
[a] From the opposite figure complete the following:

 $\blacksquare \Delta ABM \equiv \Delta \cdots$

[2] CD = cm.

 \mathfrak{I} \mathfrak{I}

[b] Mention two cases of congruency of two triangles.



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West Zagazig Zone Zegezig Englieh Leng. Sch. for Girle



Answer the following questions:

1 Choose the correct answer:

1 If $\angle X$ complements $\angle Y$ and $\angle X \equiv \angle Y$, then m ($\angle X$) =°

(a)45

(b)90

(c)20

(d) 180

2 A square is of perimeter 20 cm., then its area = cm²

(a)4

(b) 5

(c)25

(d) 400

The two diagonals are equal in length in the

(a) rhombus.

(b) parallelogram.

(c) trapezium.

(d) rectangle.

4 In the opposite figure:

 $B \in \overline{AC}$, then $x = \cdots$

(a) 30

(b) 120

(c)40

(d) 150

5 If $m (\angle A) = 110^{\circ}$, then $m (reflex \angle A) = \cdots$

(a) 70°

(b) 360°

(c) 250°

(d) 150°

Geometry

التهمس التحاليك التكويل

6 In the opposite figure :

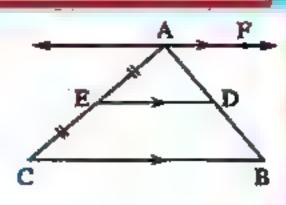
If AF // ED // CB ,AE = EC , then AD : AB =

(a) 2:1

(b) 3:2

(c) 1:3

(d) 1:2



Complete each of the following:

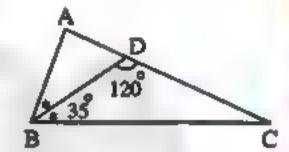
- If $\triangle ABC = \triangle XYZ$, $m(\angle A) + m(\angle B) = 120^{\circ}$, then $m(\angle Z) = \cdots$
- 2 If a straight line intersects two parallel lines, then each two corresponding angles
- 3 If \triangle ABC \cong \triangle XYZ, then AC \cong
- 4 Two right-angled triangles are congruent if
- 5 If two straight lines intersect, then the measures of each two vertically opposite angles are



BD bisects \angle ABC \Rightarrow m (\angle DBC) = 35°

$$m (\angle BDC) = 120^{\circ}$$

Find: $m (\angle C) \cdot m (\angle ABC)$ and $m (\angle A)$

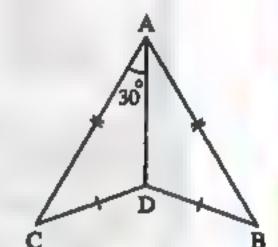


[b] In the opposite figure:

$$AC = AB \cdot DC = DB$$

$$m (\angle CAD) = 30^{\circ}$$

- 1 Prove that : $\triangle ABD = \triangle ACD$
- P Find: m (∠ CAB)

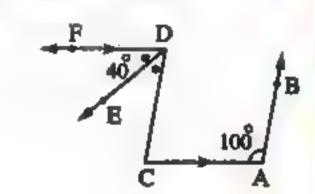


4 [a] In the opposite figure:

$$\overrightarrow{DF} // \overrightarrow{AC} \cdot m (\angle A) = 100^{\circ}$$

,
$$\overrightarrow{DE}$$
 bisects \angle FDC , m (\angle FDE) = 40°

- 1 Find: m (\(\angle \) FDC) and m (\(\angle \) C)
- 2 Prove that : CD // AB



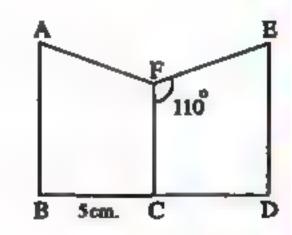
[b] In the opposite figure:

The polygon ABCF \equiv the polygon EDCF

, m (
$$\angle$$
 EFC) = 110°, BC = 5 cm.

Find: \bigcirc m (\angle AFC), m (\angle AFE) and m (\angle FCB)

The length of BD

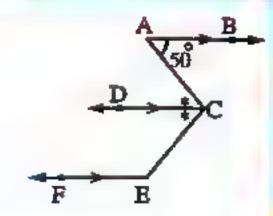


[a] In the opposite figure:

AB // CD // EF, CD bisects ∠ ACE

 $m (\angle A) = 50^{\circ}$

Find: $m (\angle ACE)$ and $m (\angle E)$



[b] Using the ruler and compasses, draw the triangle ABC in which BC = 6 cm.

 $AB = AC = 5 \text{ cm. Draw AD} \perp BC \text{ where AD} \cap BC = \{D\}$

(Don't remove the arcs)

El-Monofia Governorate

Kweene Educational Directorate Mathematica Supervision



Answer the following questions: (Calculator is permitted)

Choose the correct answer:

1 The sum of the measures of the accumulative angles at a point equias°

(a) 90

- (b) 180
- (c) 270
- (d)360

[2] If two triangles ABC and XYZ are congruent , then

- (a) BC = XZ
- (b) YX = CA
- (c) ZY = CB
- (d)AB = YZ
- 3 If a straight line intersects two parallel straight lines , then each two interior angles in the same side of the transversal are
 - (a) equal.
- (b) supplementary. (c) corresponding.
- (d) complementary.
- If $\triangle ABC \equiv \triangle XYZ$, $m(\angle A) + m(\angle B) = 115^{\circ}$, then $m(\angle Z) = \dots$

(d) 70

(a) 115

- (b)65
- (c) 15

If $m (\angle A) = 90^{\circ}$, then $m (reflex \angle A) = \cdots$

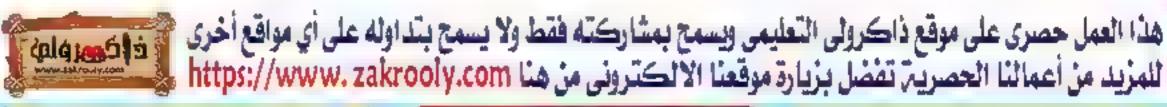
- (a) 270
- (b) 180
- (c) 90
- (d) 360

If $\angle A$ supplements $\angle B$ and $\angle A = \angle B$, then $m (\angle B) = \cdots$

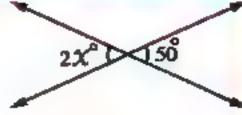
- (a)45
- (b) 90
- (c) 120
- (d)60

Complete each of the following:

- Two triangles are congruent if two sides and the in one of them are congruent to their corresponding parts of the other.
- If two straight lines are perpendicular to a third line, then these two straight lines are
- If L, // L, and L, I L, then L, L,



5 In the opposite figure:



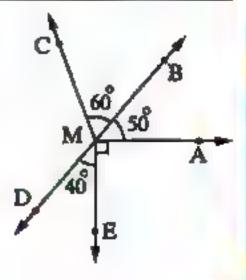
[a] In the opposite figure:

$$m (\angle AMB) = 50^{\circ}$$



$$m (\angle BMC) = 60^{\circ}$$

, m (
$$\angle$$
 DME) = 40° and MA \perp ME



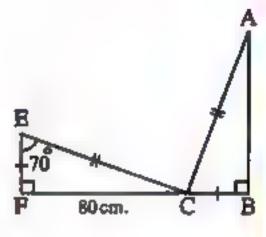
[b] In the opposite figure:

$$CB = FE \cdot AC = EC$$

$$_{2}$$
 m (\angle B) = m (\angle F) = 90°

• m (
$$\angle$$
 E) = 70° and FC = 80 cm.



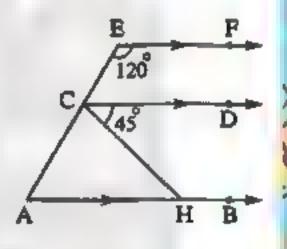


[a] Draw the angle ABC where m (\angle B) = 130°, using the ruler and the compasses bisect \angle B

[b] In the opposite figure:

$$m (\angle HCD) = 45^{\circ}$$

Find: The measures of the angles of Δ AHC

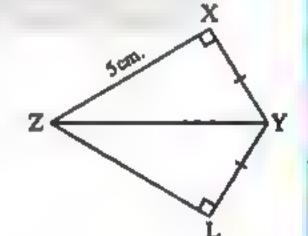


[a] In the opposite figure:

$$m (\angle ZXY) = m (\angle ZLY) = 90^{\circ}$$

$$XY = LY$$
 and $ZX = 5$ cm.

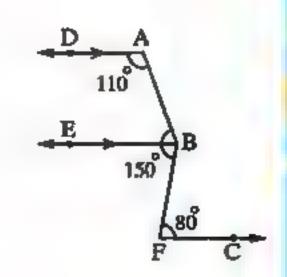
1 Is
$$\triangle YXZ = \triangle YLZ$$
? Why?



[b] In the opposite figure:

$$m (\angle F) = 80^{\circ}$$

$$_{9}$$
 m (\angle A) = 110° and m (\angle ABF) = 150°



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Talkha Educational Directorate AMDL School



Answer the following questions:

Choose the correct answer:

- 1 The sum of measures of the accumulative angles at a point is
 - (a) 180°
- (b) 90°
- (c) 360°
- (d) 60°

- 2 The acute angle supplements angle.
 - (a) an acute
- (b) an obtuse
- (c) a right
- (d) a reflex
- 3 The two straight lines parallel to a third straight line are
 - (a) intersecting.
- (b) congruent.
- (c) parallel.
- (d) perpendicular.
- 4 If $\triangle ABC = \triangle DEF$, $m(\angle A) + m(\angle B) = 110^{\circ}$, then $m(\angle F) = \cdots$
 - (a) 180°
- (b) 110°
- $(c) 80^{\circ}$
- (d) 70°

5 In the opposite figure:

X = ······

- (a) 80°
- (b) 100°
- (c) 20°
- (d) 40°

- **B** AB U AC =
 - (a) AB
- (b) ∠ ABC
- (c) ∠ BAC
- (d) Ø

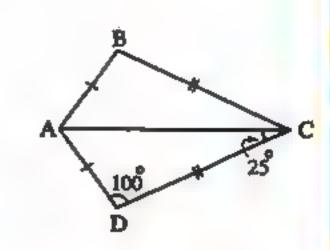
Complete the following:

- 1 The complement of an angle of measure 75° is an angle of measure
- 2 If m ($\angle A$) = 160°, then m (reflex $\angle A$) =°
- 3 If two straight lines intersect , then the measures of each two vertically opposite angles
- 4 If AB = XY, then $AB XY = \cdots$
- 5 If ∠ A supplements ∠ B and ∠ A ≈ ∠ B, then m (∠ B) =°

[a] State any two cases of congruency of two triangles.

[b] From the opposite figure:

- 1 Prove that : \triangle ABC \equiv \triangle ADC
- Find: m (\(BAC \)



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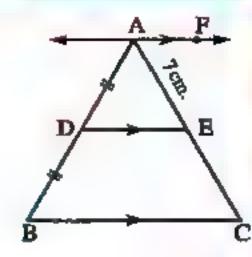
4 [a] In the opposite figure:

AF // DE // BC

D is the midpoint of AB

AE = 7 cm.

Find: AC



[b] Using the geometric instruments, draw \triangle ABC in which BC = 6 cm., AB = AC = 5 cm.

, then draw $\overrightarrow{AD} \perp \overrightarrow{BC}$ where $\overrightarrow{AD} \cap \overrightarrow{BC} = \{D\}$, Find by measuring: AD

(Don't remove the arcs)

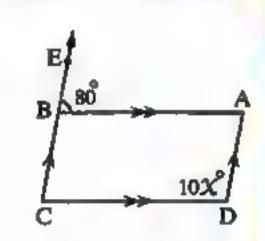
[a] In the opposite figure :

AB // DC , BC // AD

 $E \in \overrightarrow{BC}$, m ($\angle D$) = 10 x°

 $m (\angle ABE) = 80^{\circ}$

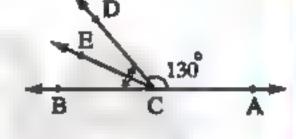
Find: The value of X



[b] In the opposite figure:

 $C \in \overline{AB}$, m ($\angle ACD$) = 130°, \overline{CE} bisects $\angle BCD$

Find: m (\(\subseteq \text{DCE} \)



Ismailia Governorate

Ornetorate of Education Math a Supervision



m

Answer the following questions:

Choose the correct answer:

1 The angle of measure 60° supplements an angle of measure

(a) 40

(b) 30

(c) 120

(d) 90

[2] If two straight lines are perpendicular to a third, then the two straight lines are

(a) perpendicular. (b) intersecting.

(c) parallel.

(d) congruent.

3 If \triangle ABC \equiv \triangle XYZ, m (\angle A) + m (\angle B) = 140°, then m (\angle Z) =°

(a) 60

(b) 40

(c) 80

(d) 140

The number of axes of symmetry of the square equals

(a) 1

(b) 2

(c) 3

(d)4

[5] If a straight line cuts two parallel lines - then each two corresponding angles are --

(a) equal in measure.

(b) complementary.

(c) supplementary.

(d) right.

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Geometry

والكوين المتحاسب الكراث

- - (a) 80
- (b) 260
- (c) 50
- (d) 100

Complete the following:

- 2 If \triangle ABC \equiv \triangle XYZ, then AC =
- 3 If $\angle C \equiv \angle D$, $m(\angle C) = 90^{\circ}$, then $m(\angle D) = \cdots$
- 4 The measure of the straight angle equals
- 5 The perimeter of a square is 40 cm. , then its side length is cm.

[a] In the opposite figure:

AC = AB

,DC = DB

Is \triangle ADB \equiv \triangle ADC? Why?

[b] In the opposite figure:

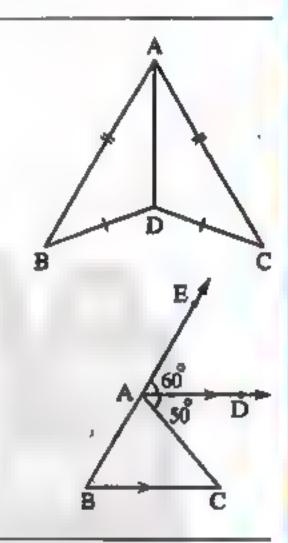
AD // BC

 $m(\angle EAD) = 60^{\circ}$

 $m (\angle CAD) = 50^{\circ}$

Find: 1 m (∠ C) 2

2 m (BAC)



4 [a] In the opposite figure:

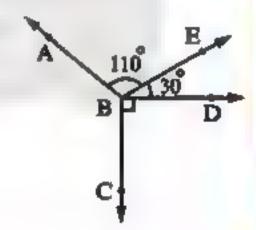
 $m (\angle DBE) = 30^{\circ}$

, ∠ CBD is a right angle

 $m (\angle EBA) = 110^{\circ}$

Find: m (∠ ABC)

[b] Draw AB of length 6 cm. and bisect it.



(Don't remove the arcs)

[a] In the opposite figure:

BA // CD // YZ

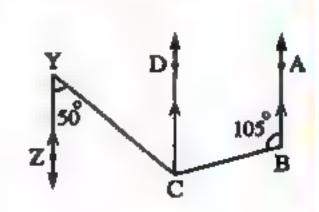
 $_{9}$ m (\angle ABC) = 105°

 $m (\angle ZYC) = 50^{\circ}$

Find: Im (∠ YCD)

2 m (∠ BCD)

3 m (∠ BCY)



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كتاب المعامي

والمنظال المنظمة المنظ

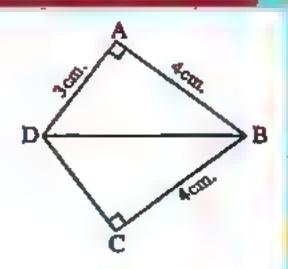
الصف الأول الأعدادي

[b] In the opposite figure:

AB = BC = 4 cm., AD = 3 cm.

$$m (\angle A) = m (\angle C) = 90^{\circ}$$

- 1 Is $\triangle ABD \equiv \triangle CBD$? Why?
- 2 Find: The length of CD



Damietta Governorate

Darshifte Inspection of Methametica Official Language Schools



Answer the following questions:

Choose the correct answer:

1 If $\angle X$ supplements $\angle Y$ and $\angle X = \angle Y$, then $m (\angle X) = \cdots \circ$

- (a) 45
- (b) 90
- (c) 180
- (d) 360

[2] If $\triangle ABC = \triangle XYZ$, then

- (a) AB = YZ
- (b) BC = XZ (c) YX = CA
- (d) ZY = CB

3 The centimeter cube is a unit for measuring the

- (a) perimeter.
- (b) area.
- (c) volume.
- (d) length.

Two straight lines are perpendicular to a third line , then the two straight lines are

- (a) perpendicular. (b) parallel.
- (c) congruent.
- (d) intersecting.

5 XY XY

- (a) €
- (b) ∈
- (c) ⊂
- (q) ¢

B In the opposite figure:

If
$$\overrightarrow{AC} \cap \overrightarrow{MB} = \{M\}$$

- , then the value of $x = \dots$ °
- (a) 20
- (b) 30
- (c) 40
- (d) 60

Complete each of the following:

1 If m ($\angle A$) = 120°, then m (reflex $\angle A$) =°

- 3 The number of edges of the cuboid is
- 4 If a straight line cuts two parallel straight lines then each two alternate angles are
- 5 If $AB \equiv CD$, then $AB CD = \cdots$



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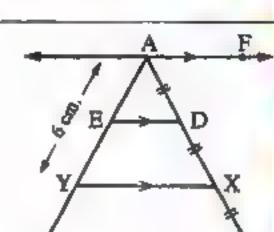
[a] In the opposite figure:

$$_{1}$$
 m (\angle A) = 60°

$$m (\angle D) = 120^{\circ}$$

1 Find: m (∠ C) 2 Is
$$\overrightarrow{AC}$$
 // \overrightarrow{DE} ? Why? (Write the steps)

[b] Draw \angle ABC where m (\angle B) = 115° Using the ruler and compasses bisect \angle B by BD (Don't remove the arcs)

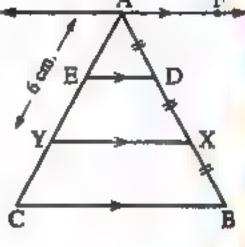


[a] In the opposite figure:

$$AD = DX = XB$$

$$, AY = 6 cm.$$

Find: The length of AC (Give the reason)



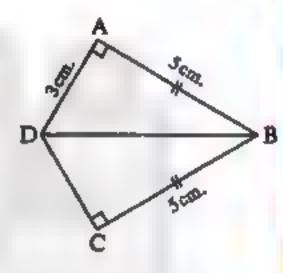
[b] In the opposite figure:

$$m (\angle BAD) = m (\angle BCD) = 90^{\circ}$$

$$AB = CB = 5 \text{ cm.} AD = 3 \text{ cm.}$$

Mention the conditions for \triangle ABD \rightarrow \triangle CBD to be congruent

, then find: The length of CD



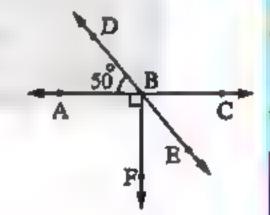
[a] In the opposite figure :

$$\overrightarrow{AC} \cap \overrightarrow{DE} = \{B\}$$

$$m (\angle ABD) = 50^{\circ}$$

$$m (\angle ABF) = 90^{\circ}$$

Find showing the steps:



[b] In the opposite figure:

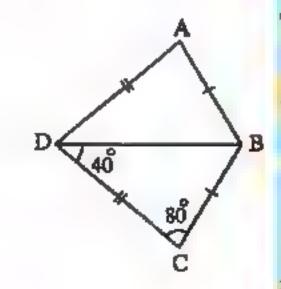
$$AB = BC \cdot AD = CD$$

$$m (\angle C) = 80^{\circ}$$

$$m (\angle BDC) = 40^{\circ}$$

Is
$$\triangle CBD = \triangle ABD$$
? Why?

and find: m (∠ABD)



د کهروان

Souhag Governorate

Methe Supervision



Answer the following questions:



Choose the correct answer:

- (a) 45°
- (b) 90°
- (c) 135°
- (d) 180°

2 If two straight lines are perpendicular to a third line, then the two straight lines are

- (a) perpendicular. (b) parallel.
- (c) congruent.
- (d) intersecting.

3 If $\triangle XYZ = \triangle ABC$ and $m(\angle A) + m(\angle B) = 100^{\circ}$, then $m(\angle Z) = \cdots$

- (a) 50°
- (b) 80°
- (c) 100°
- (d) 360°

4 The angle whose measure is more than 90° and less than 180° is

- (a) obtuse.
- (b) acute.
- (c) right.
- (d) straight.

If $m (\angle X) = 2 m (\angle Y) \rightarrow \angle X$ and $\angle Y$ are two complementary angles

- , then m ($\angle Y$) =
- (a) 90°
- (b) 45°
- $(c) 30^{\circ}$
- (d) 15°

6 The sum of the measures of the accumulative angles at a point is

- (a) 45°
- (b) 90°
- (c) 180°
- (d) 360°

2 Complete each of the following:

1 If two straight lines intersects, then each two vertically opposite angles are

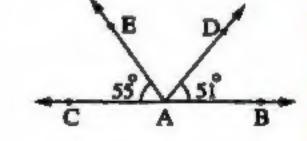
2 If \triangle ABC = \triangle XYZ, then XZ =

3 If $\angle A$ supplements $\angle B$, m ($\angle A$) = 100°, then m (reflex $\angle B$) =

4 In the opposite figure:

A∈CB

, then m (∠ DAE) =°

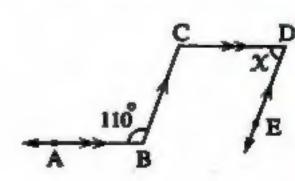


5 In the opposite figure:

CD // BA

, DE // CB

, then $x = \cdots \circ$





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Geometry

التجسيل التعراسي الكوال

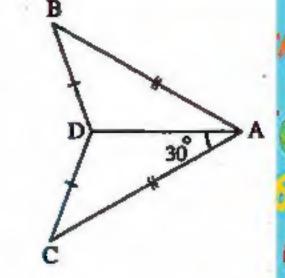
[a] In the opposite figure:

$$AB = AC$$

$$,BD = DC$$

$$m (\angle CAD) = 30^{\circ}$$

1 Prove that : $\triangle ABD \equiv \triangle ACD$

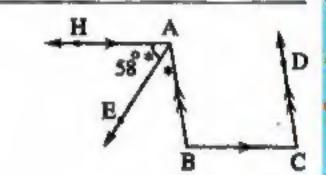


[b] Using the ruler and the compasses \cdot draw the angle ABC where m (\angle ABC) = 110° and draw BD to bisect the angle. (Don't remove the arcs)

[a] In the opposite figure:

$$\overline{AE}$$
 bisects $\angle BAH$, m ($\angle EAH$) = 58°

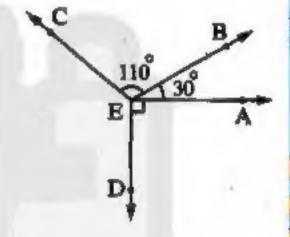
Find:
$$m (\angle C)$$



[b] In the opposite figure:

$$m (\angle AEB) = 30^{\circ} \cdot m (\angle BEC) = 110^{\circ}$$

$$m (\angle AED) = 90^{\circ}$$

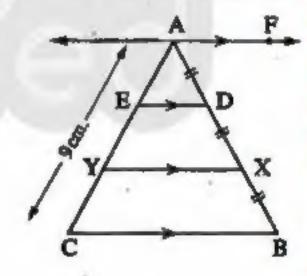


[a] In the opposite figure:

$$AD = DX = XB$$

$$,AC = 9 cm.$$

Find: The length of AY



[b] In the opposite figure:

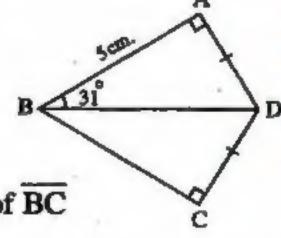
$$m (\angle A) = m (\angle C) = 90^{\circ} \cdot m (\angle ABD) = 31^{\circ}$$

$$AB = 5 cm$$
.

$$,AD = CD$$

Prove that : $\triangle ABD \equiv \triangle CBD$

2 Find: The length of BC



3 Find: m (∠ CBD)



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Luxor Governorate

Lucor Directorate El-Salam Language School



Answer the following questions:

Choose the correct answer:

A square is of side length 7 cm. , then its perimeter = cm.

(a) 14

(b) 21

(c) 24

(d) 28

2 The circumference of the circle =

(a) 2 π

(b) 2 π r

(c) TI r

(d) πr^2

3 The sum of measures of the accumulative angles at a point equals

(a) 360

(b) 180

(c) 603

(d) 150

4 If $L_1 // L_3$, $L_2 // L_3$, then

(a) $L_1 // L_2$ (b) $L_1 \perp L_2$ (c) $L_2 \perp L_3$ (d) $L_1 \perp L_3$

The measure of the supplement of the angle whose measure is 30° equals°

(a) 60

(b) 180

(c) 150

(d) 90

B If $\angle X$ complements $\angle Y$ and $\angle X = \angle Y$, then $m(\angle X) = \dots$ °

(a) 45

(b) 90

(c) 180

(d) 360

2 Complete:

1 Two triangles are congruent if two sides and of one triangle are congruent to their corresponding parts of the other triangle.

2 If m ($\angle A$) = 105°, then m (reflex $\angle A$) =

3 If \triangle ABC \equiv \triangle XYZ, then \triangle \equiv

4 If a straight line intersects two parallel lines , then each two corresponding angles are

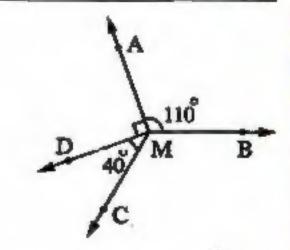
5 In \triangle ABC, if m (\angle A) = 50°, m (\angle B) = 40°, then m (\angle C) =°

[a] In the opposite figure:

 $m (\angle AMB) = 110^{\circ} \cdot m (\angle AMD) = 90^{\circ}$

 $m (\angle DMC) = 40^{\circ}$

Find: m (\(\mathcal{L} \) BMC) (With steps)





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Geometry

التجسيل التعاطسي التحويل

[b] Using the geometric tools , draw ∠ ABC whose measure is 90°

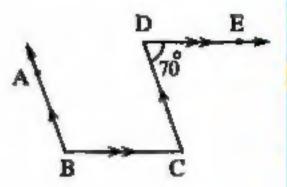
, then draw BF to bisect the angle.

(Don't remove the arcs)

[a] In the opposite figure:

• m (
$$\angle$$
 D) = 70°

Find: $m (\angle C) , m (\angle B)$ (Give reason)

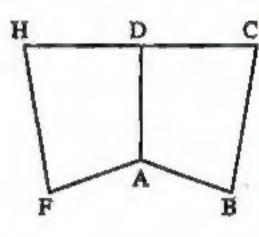


[b] In the opposite figure:

The polygon ABCD ≡ the polygon AFHD

Complete:

$$\boxed{4} \text{ m } (\angle \mathbf{F}) = \text{m } (\angle \cdots \cdots)$$



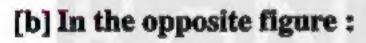
[a] In the opposite figure:

$$AB = BC$$

$$,AD = DC$$

$$m (\angle C) = 80^{\circ}$$

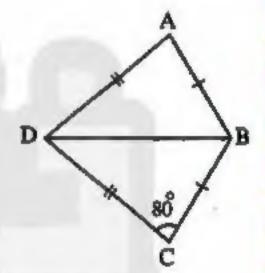
1 Prove that :
$$\triangle ABD \equiv \triangle CBD$$

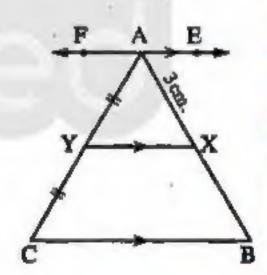


$$AY = YC$$

$$AX = 3 cm$$
.

Find: The length of AB (Give reason)





قام جدہد لااکر ولي علی فروسبــوك توہئــر وائــس اب

اليجــرام

التب ذائرولي في البحث وانض لجروبات ذائرولي هنه رياض الاطفال للصف الثالث الاعدادي

اَلِع جَدِبَدُ لَاكْرُولِي عَلَى عَوْقَعْنَا فَالْكِمِيوَاتِهُ الْطَالِحِينَا الْمُرُولِي عَلَى عَوْقَعْنَا فَالْكِمِيوَاتِهُ الْمُرُولِي عَلَى عَوْقَعْنَا فَالْكِمِيوَاتِهِ الْمُرْوِلِي عَلَى عَوْقَعْنَا فَالْكِمِيوَاتِهِ الْمُرْوِلِي عَلَى عَوْقَعْنَا فَالْكِمِيوَاتِهِ الْمُرْوِلِي عَلَى عَوْقَعْنَا فَالْمُواتِيَةِ الْمُرْوِلِي عَلَى عَوْقَعْنَا فَالْمُواتِيِّةِ الْمُرْوِلِي عَلَى عَوْقَعْنَا فَالْمُواتِيِّةِ الْمُرْوِلِي عَلَى عَوْقَعْنَا فَالْمُواتِيِّةِ الْمُرْوِلِي عَلَى عَلَيْ عَوْقَعْنَا فَالْمُواتِي عَلَى عَلَى عَلَيْ عَلَيْ عَلَيْكُوالِي عَلَى عَلَيْ عَلَيْكُ الْمُرْوِلِي عَلَى عَلَى عَلَيْكُوالِي عَلَى عَلَى عَلَيْكُوالْمُواتِي عَلَى عَلَى عَلَيْكُوالْمُوالْمُوالْمُوالِي عَلَى عَلَيْكُوالْمُوالْمُولِي عَلَى عَلَى عَلَيْكُوالْمُوالْمُولِي عَلَيْكُوالْمُ الْمُرْوِلِي عَلَى عَلَى عَلَى عَلَى عَلَى عَلَى عَلَيْكُوالْمُولِي عَلَى عَلَى عَلَى عَلَى عَلَى عَلَى عَلَى عَلَى عَلَيْكُوالْمُ الْمُرْوِلِي عَلَى عَلَ





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